Operating Instructions

STEREO MULTI-PLAY CD CASSETTE DECK AMPLIFIER

XD-J225M
XD-J125M

FM/AM DIGITAL SYNTHESIZER TUNER

F-J220

AUTO RETURN STEREO TURNTABLE

PL-J210

"This product complies with the Radio Interference requirements of the EC (European Community) Directive 87/308/EEC."

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, put them away in a safe place for future reference.
In some countries or regions, the shape of the power plug and power outlet may sometimes differ from that shown in the explanatory drawings. However, the method of connecting and operating the unit is the same.

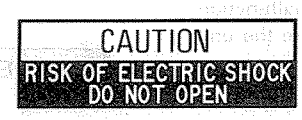
WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

DEMO FUNCTION
If the FUNCTION (DEMO) button is pressed when the power is in STANDBY mode, the demonstration mode will be selected and power will be turned ON automatically.
In the demo mode, various functions of this system appear on the display.
This unit automatically searches for a program source which can be played so you can enjoy listening to the selected source.

COMPACT disc DIGITAL AUDIO

IMPORTANT

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code:
blue neutral
brown live

If the plug provided is unsuitable for your socket outlets, the plug must be cut off and a suitable plug fitted.
The cut-off plug should be disposed of and must not be inserted into any 13 amp socket as this can result in electric shock. The plug or adaptor or the distribution panel should be provided with 5 amp fuse. As the colours of the wires in the mains lead of this appliance may not correspond with coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Do not connect either wire to the earth terminal of a three pin plug.

NOTE
After replacing or changing a fuse, the fuse cover in the plug must be replaced with a fuse cover which corresponds to the colour of the insert in the base of the plug or the word that is embossed on the base of the plug, and the appliance must not be used without a fuse cover. If lost, replacement fuse covers can be obtained from your dealer.

Only 5 A fuses approved by B.S.I. or A.S.T.A. to B.S. 1362 should be used.

PIONEER®
The Art of Entertainment

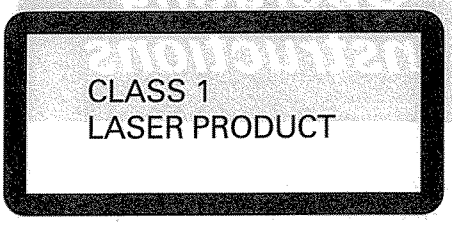
[FOR EUROPEAN AND U.K. MODELS]

CAUTION

This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product.
Refer all servicing to qualified personnel.

The following caution label appears on your unit.

Location: rear of the unit.



POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement.

CAUTIONS REGARDING HANDLING

LOCATION

Install the unit in a well-ventilated location where it will not be exposed to high temperatures or humidity.
Do not install the unit in a location which is exposed to direct rays of the sun, or near hot appliances or radiators. Excessive heat can adversely affect the cabinet and internal components. Installation of the unit in a damp or dusty environment may result in a malfunction or accident. (Avoid installation near cookers, etc., where the unit may be exposed to smoke, steam or heat.)

PRECAUTIONS REGARDING INSTALLATION

- Placing and using the unit for long periods on heat-generating sources such as amplifiers will affect performance. Avoid placing the unit on heat-generating sources.
- Install the unit as far away as possible from TV sets. If the unit is installed in close proximity to such equipment, it may cause noise or degradation of the picture. Such noise may be particularly noticeable when an indoor antenna is used. In such a case, make use of an outdoor antenna, or turn off power to the unit.

CAUTION CONCERNING TURNTABLE INSTALLATION

If the turntable is placed directly on or very close to a speaker, the vibrations from the speaker may be transported to the tonearm's cartridge, thus causing feedback howling. Be sure that speakers are placed sufficiently away from the turntable.

CONDENSATION

When the unit is brought into a warm room from previously cold conditions or when the room temperature is suddenly increased, condensation may form inside and the unit may not be able to attain its full performance. In cases like this, allow the unit to stand for about an hour or raise the room temperature gradually.

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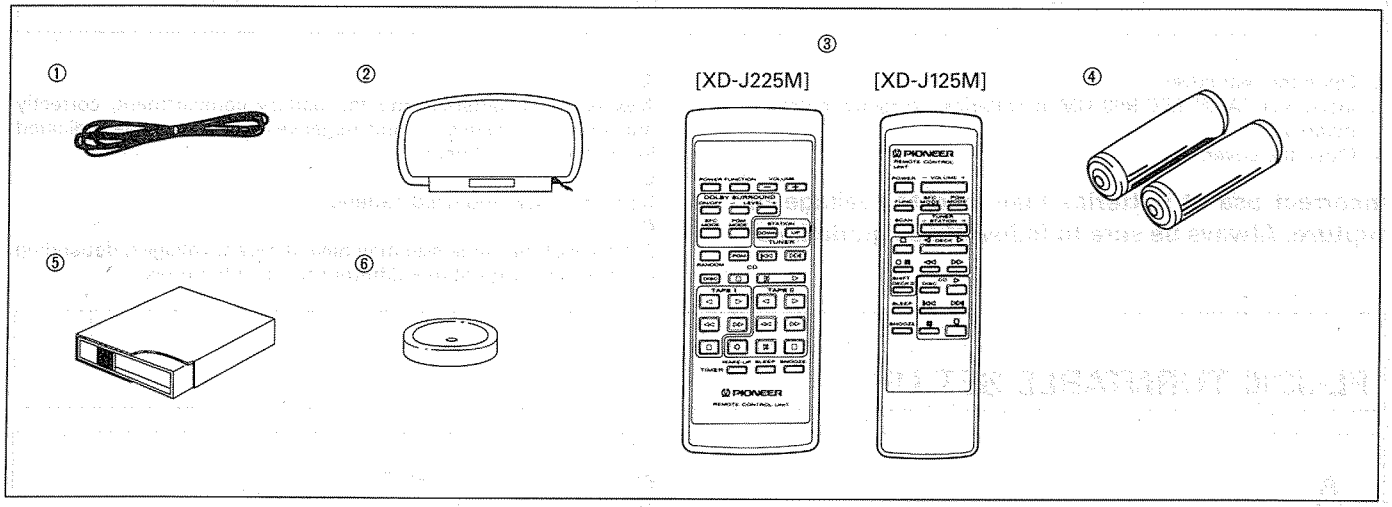
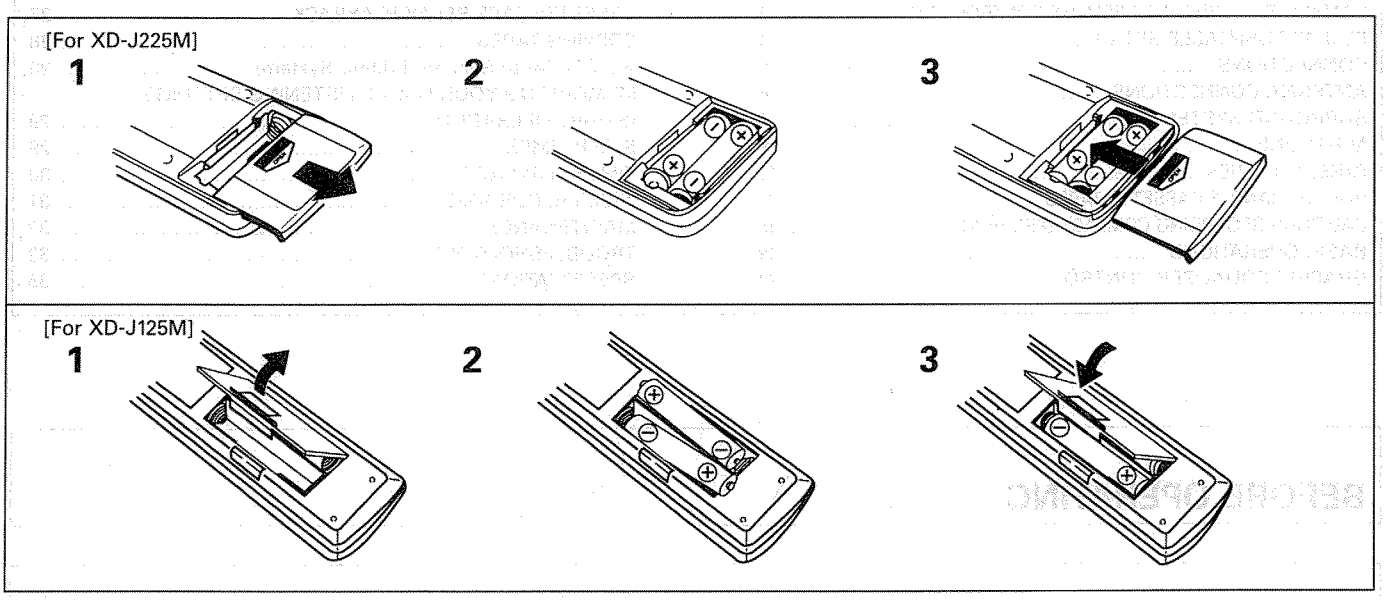
BEFORE OPERATING



CONFIRM SUPPLIED ACCESSORIES

① FM antenna (F-J220)
② AM loop antenna (F-J220)
③ Remote control unit (XD-J225M/XD-J125M)
④ Batteries (R03/UM-4) (XD-J225M/XD-J125M)
⑤ Six-compact-disc magazine (XD-J225M/XD-J125M)
(Called 6 disc magazine in the explanatory text.)
⑥ EP adapter (PL-J210)

LOADING BATTERIES INTO REMOTE CONTROL UNIT

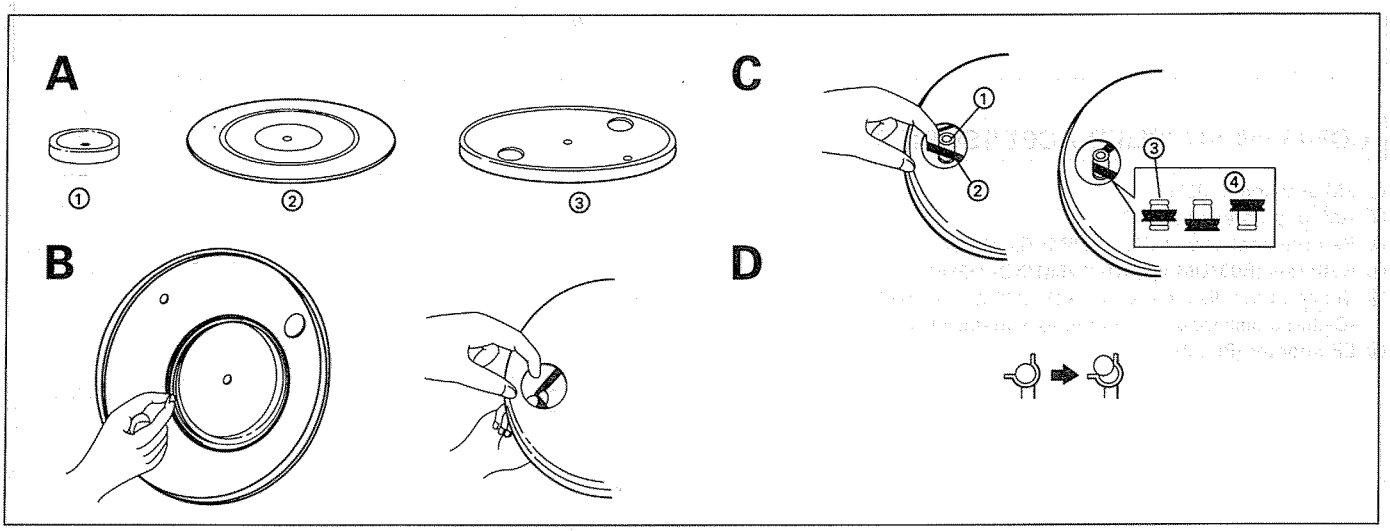


1. Open the rear cover.
2. Install size "AAA" (IEC R03/UM-4) batteries, correctly matching polarity.
3. Close the cover.

Incorrect use of batteries may lead to leakage or rupture. Always be sure to follow these guidelines:

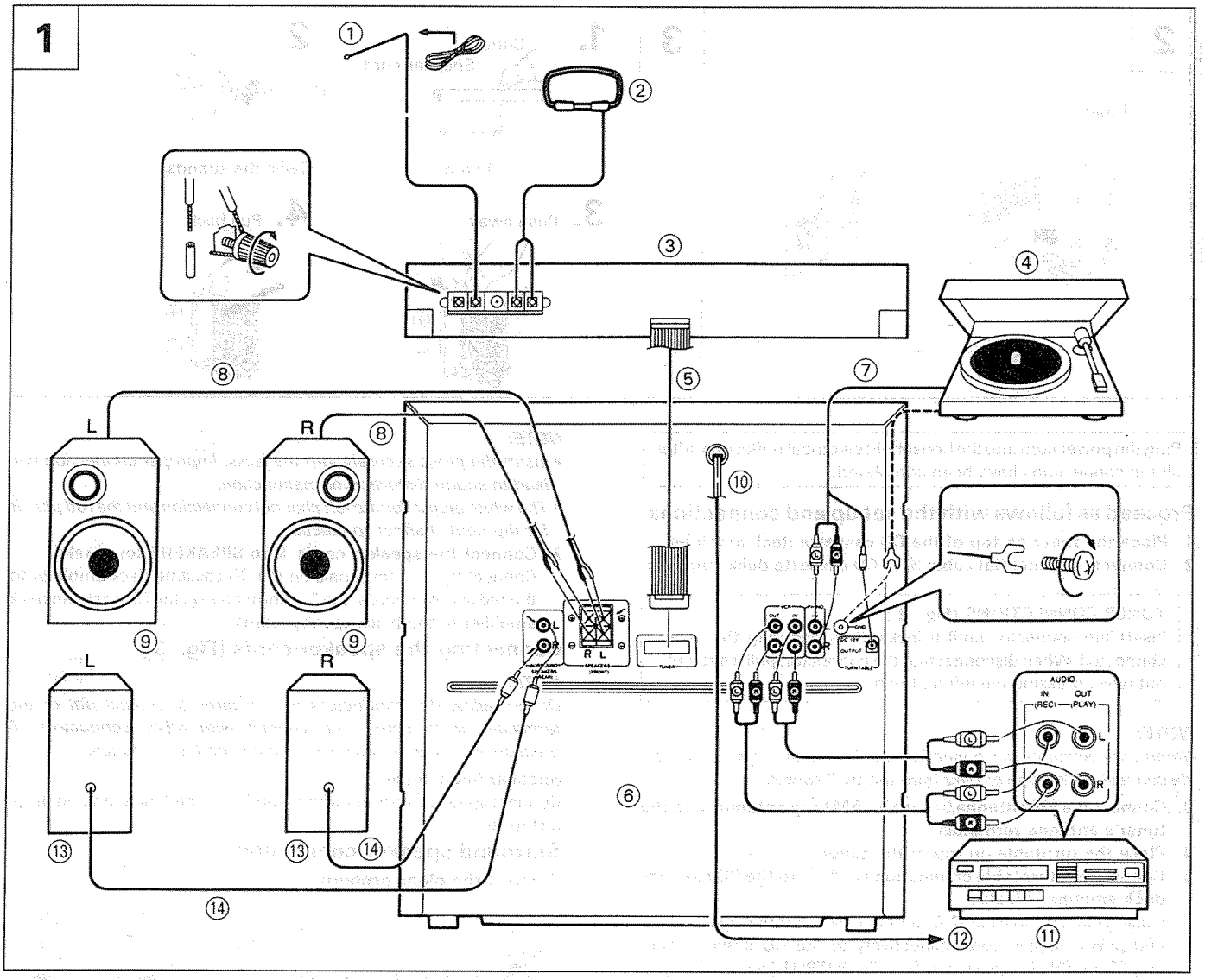
A:
Always insert batteries into the battery compartment, correctly matching the positive + and negative − polarities, as indicated inside the compartment.
B:
Never mix new and used batteries.
C:
Batteries of the same size may have different voltages, depending on their type. Do not mix different types of batteries.

PL-J210 TURNTABLE SET UP



1. **Check the parts (See Fig. A).**
   ① EP adapter (You will find this taped on the cabinet.)
   ② Platter mat
   ③ Platter
2. **Pinch belt on inner rim between thumb and forefinger (See Fig. B).**
3. **Slip belt over finger and pull towards hole in platter.**
4. **Insert forefinger through the hole on top of platter and transfer belt to forefinger.**
5. **While holding belt, lower platter onto spindle.**
6. **Release belt onto pulley (See Fig. C).**
   ① Pulley
   ② Belt
   ③ Correct
   ④ Incorrect
7. **Place platter mat on platter (with "PIONEER" side up).**
8. **Remove the vinyl band holding the tonearm.**
9. **Remove the plastic cover from the cartridge stylus.**
10. **Remove the tonearm from the armrest (See Fig. D).**

CONNECTIONS

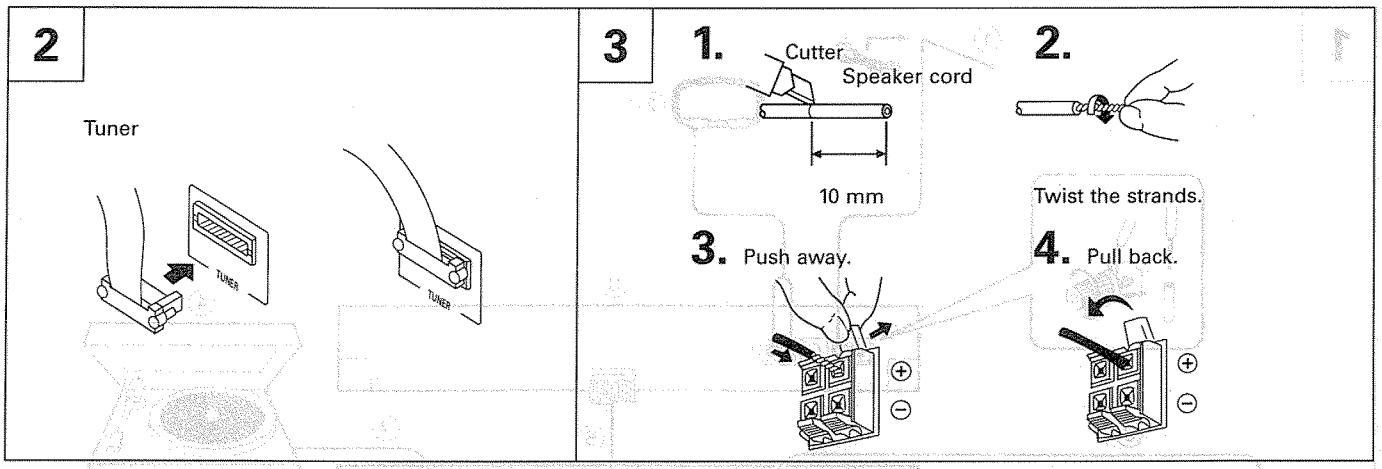


See Fig. 1

① Accessory FM antenna
② Accessory AM loop antenna
③ FM/AM tuner (F-J220)
④ Turntable (PL-J210)
⑤ Tuner flat cable
⑥ Multi CD cassette deck amplifier
⑦ Turntable connection cords
⑧ Front speakers cords
⑨ Front speaker system
⑩ Power cord
⑪ Video cassette recorder (VCR)
⑫ AC wall socket
⑬ Surround (rear) speaker system
⑭ Surround (rear) speakers cords

NOTE:

Do not place the PL-J210 directly on the XD-J225M/XD-J125M.



Plug the power cord into the household electrical outlet only after all the connections have been completed.

Proceed as follows with the set up and connections.

1. **Place the tuner on top of the CD cassette deck amplifier.**
2. **Connect the tuner flat cable ⑤ to CD cassette deck amplifier.**

TUNER CONNECTIONS (Fig. 2)
Insert the connector until it locks, thus ensuring that it is connected. When disconnecting the connector, pull it straight out while pressing the left and right claws.

NOTE:
When connecting or disconnecting the flat cable, do so only after disconnecting the power plug from the wall socket.

3. **Connect the FM antenna ① and the AM loop antenna ② to the tuner's antenna terminals.**
4. **Place the turntable on top of the tuner.**
5. **Connect the turntable connection cords ⑦ to the CD cassette deck amplifier's jacks.**
   If using the turntable PL-J210, connect the turntable's audio cords and power supply cord respectively to the CD cassette deck amplifier's PHONO jacks and DC 12V OUTPUT jack.
   If using a different turntable, connect its audio cord and ground cord.
6. **Use the "VCR IN/OUT" jacks for connection to the audio output jacks of a VCR.**

NOTE:
- *Insert the plugs securely into the jacks. Improper connection can lead to sound distortion or malfunction.*
- *The white plug is for the left channel connection and the red plug is for the right channel connection.*

7. **Connect the speaker cords ⑧ to SPEAKERS terminals.**
   Connect the "+" terminals on the CD cassette deck amplifier to the red speaker cords, the "—" terminals on the CD cassette deck amplifier to the black speaker cords.

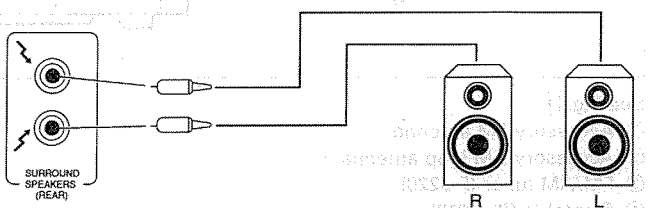
Connecting the speaker cords (Fig. 3)

NOTE:
Do not allow the conductors of the cords to project out of the terminals or to come into contact with other conductors. A breakdown or failure may occur when conductors touch.

Speaker impedance
Connect speaker systems with a nominal impedance ranging from 8 Ω to 16 Ω.

Surround speaker connection

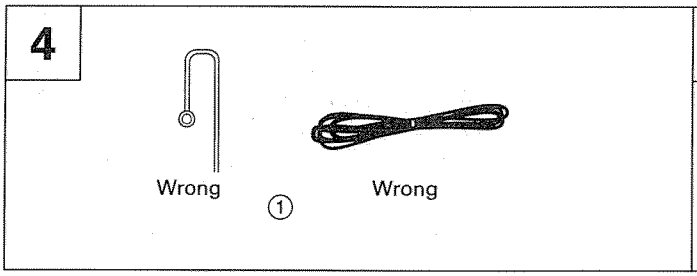
Connect the plugs properly.

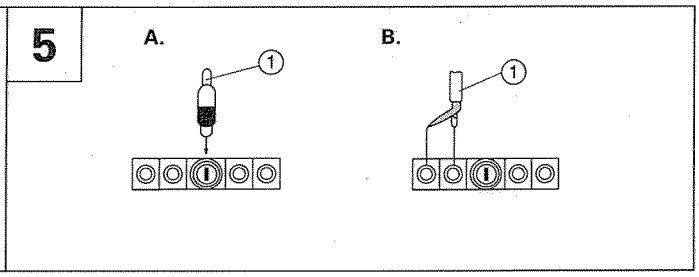


Connect a speaker system equipped with RCA phono type cords and having a nominal impedance of 16 Ω or more.

8. **Finally, connect the power cord ⑩ to the AC wall socket ⑫.**

ANTENNA CONNECTIONS





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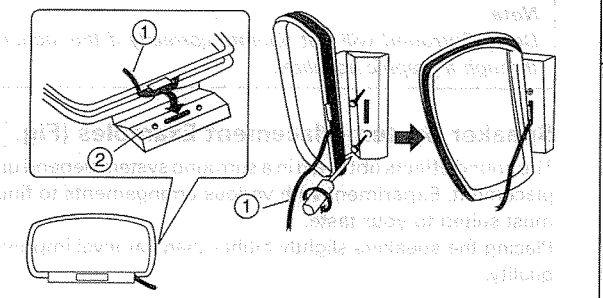

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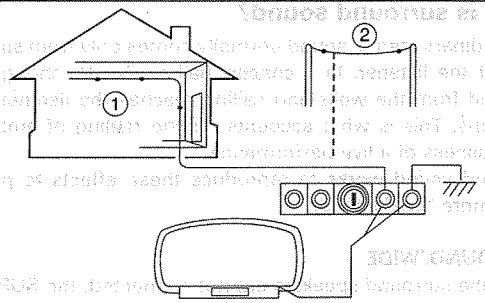


Radio reception is not possible unless the antenna is properly connected.

The strength of broadcast signals varies from one area to another. Signal propagation is especially poor in metropolitan areas, where there are many tall buildings, and in mountainous areas. Proper antenna installation is vital to good reception.

FM ANTENNA

FM Antenna Attachment (Fig. 4)

Connect the accessory FM antenna to the FM terminals. Fully extend the antenna, and affix it to a wall, etc.

External FM antenna installation (Fig. 5)

Use an external antenna when the signals from the station are weak and cannot be picked up by the accessory FM antenna, or when the sound heard is accompanied by too much noise.

If the FM antenna terminal is a PAL terminal, then connect as shown in figure 5-A.

If the FM antenna terminal is not a PAL terminal, then connect as in figure 5-B if using a 75 Ω coaxial cable.

① 75 Ω coaxial cable

AM ANTENNA

The AM loop antenna supplied with the tuner should be connected to the AM antenna terminals. The antenna should be placed at a distance from the tuner, and should not be allowed to touch metallic objects. Avoid placing it near personal computers, television sets, and other devices generating radio frequencies.

Setting Up the AM Loop Antenna (Fig. 6)

- Insert the clip on the bottom of the antenna into the groove on the leg.
- To permanently affix the antenna, screw the leg to a wall or something similar before assembling (affixing the antenna in the direction that gives the best reception).
- Place the antenna on a level surface and rotate it to locate the orientation that yields the best reception.

① lead wire ② leg

External AM antenna (Fig. 7)

① **Indoor AM antenna**

Provide a vinyl-coated wire (5 to 6 meters long). Secure one end to the AM terminal and the other end to a wall or other high location.

② **Outdoor AM antenna**

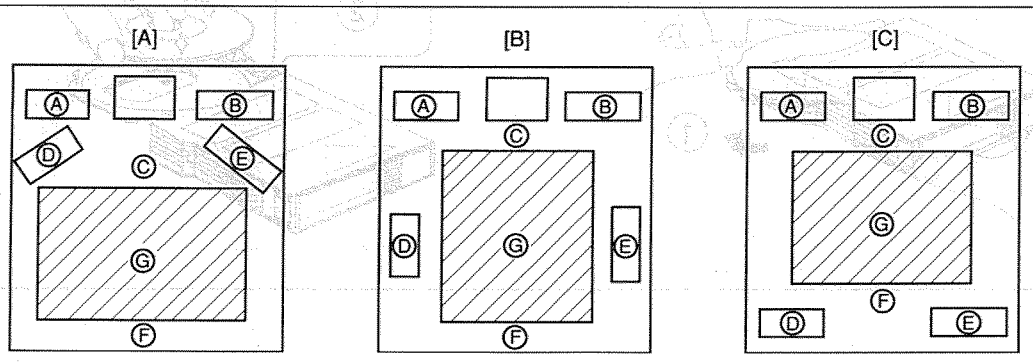
If reception is still poor even when a lead antenna has been fully extended indoors, stretch out a vinyl-coated wire and secure it outdoors.

NOTE:

Do not detach the AM loop antenna when using the external AM antenna.

SURROUND SYSTEM

8



SURROUND SYSTEM

What is surround sound?

With ordinary stereo, sound normally comes only from speakers in front of the listener. In a concert hall or theater though, sound reflected from the walls and ceiling reaches the listener from all directions. This is what accounts for the feeling of ambience or spaciousness of a live performance.
Surround sound works to reproduce these effects to produce a fuller, more "live" sound.

SURROUND/WIDE

When the surround speakers are not connected, the SURROUND/WIDE function may be activated. This function enhances the stereo effect.
Note however, that it does not operate in the case of a monaural source.

DOLBY SURROUND (XD-J225M only)

Choose this setting for movies and music (especially Video Discs and video tapes bearing the DOLBY SURROUND mark) playback.
Dolby Surround decodes the surround information in the source signal, providing a feeling of left-right and front-back movement matching the actions on screen.

*

Manufactured under license from Dolby Laboratories Licensing Corporation.
DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

NOTE:

- *To avoid interference with the picture on a nearby TV set, use magnetically shielded speaker systems.*
- *Position the left and right channel speakers at equal distances from the TV set and approximately 1.8 m from each other.*
- *Surround speakers are best positioned slightly above ear level.*

Note:
Dolby Surround will not operate correctly if the signal passes through a graphic equalizer.

Speaker System Placement Examples (Fig. 8)

The sound effects obtained in a surround system depend on speaker placement. Experiment with various arrangements to find the one most suited to your taste.
Placing the speakers slightly higher than ear level improves sound quality.

[Case A]
Good sound dispersion; recommended for movies, etc.

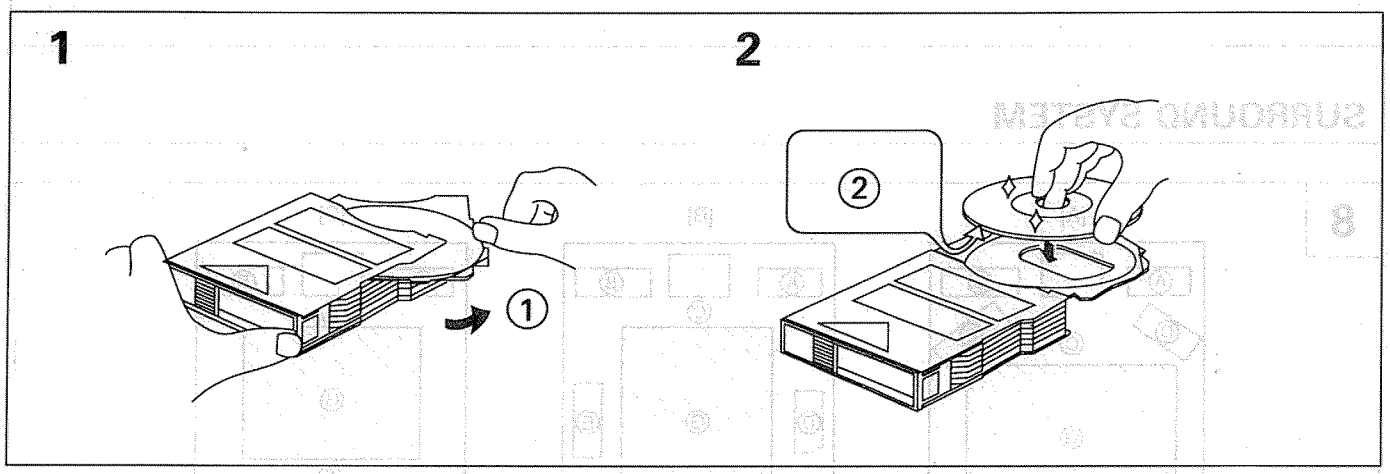
[Case B]
Sound appears to come from directly in front of the listener. Good for listening to music recordings.

[Case C]
Offers most varied effects; good for watching sports programs or listening to live recordings.

To get the best effect out of the surround system, place the speakers as shown in case C.

Ⓐ Front speaker left
Ⓑ Front speaker right
Ⓒ Front
Ⓓ Surround speaker left
Ⓔ Surround speaker right
Ⓕ Rear
Ⓖ Listening area

MAGAZINE



INSERT DISCS INTO THE SIX-DISC MAGAZINE

Insert any discs which you may have into the supplied magazine. Up to six discs may be inserted. The numbering of the discs begin with 1 at the topmost tray, and then increases in order from 2 to 6 for the lower trays.
The magazine has a window through which the pulled-out disc tray can be checked. Even during playback, the number of the disc being played back can be checked through this window.

CAUTION:
In order to play an 8-cm CD, you will need a special Multi-Play Magazine (JD-M108, JD-M308) which is sold separately. Be sure to read the Operating Instructions throughly before using it.

1. **Pull out only one disc tray.**
   See Fig. 1.
   ① Make sure to pull out only 1 disc tray

2. **Position discs with the label side downward.**
   See Fig. 2.
   ② Label side downward

3. **Put the disc tray back as it was originally.**

4. **Insert other discs by repeating steps (1) to (3).**

CAUTION:
- *Please make sure to only pull out one disc tray at a time. (When a disc tray has been pulled out, do not pull out other disc trays.)*
- *If discs are inserted label side upward, it will not be possible for them to be played. Please make sure to insert them with the label side downward.*
- *Objects other than discs (song cards, explanations of disc contents, etc.), must never be inserted into the disc trays.*
- *Do not touch the playing surface of discs (the iridescent side) with hands or fingers.*

Additional magazines identical to the one supplied are available as options *(JD-M100, JD-M200, JD-M300, JD-M308, JD-M108). Please use them to make your own disc library, with separate magazines for each artist or genre.

* JD-M100, JD-M200, JD-M300 ..... Magazine for six 12-cm discs.
  JD-M108, JD-M308 ..... Magazine for six 8-cm discs.

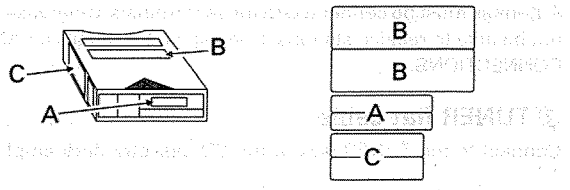
CAUTION:
Both 12-cm discs and 8-cm discs cannot be installed together in the same magazine.

CAUTIONS REGARDING HANDLING OF MAGAZINES

- When inserting a magazine into the player, make sure that the direction of insertion is correct.
- After use, store in the case provided. Do not place in locations subjected to high temperatures or exposed to direct sunlight.
- Do not take magazines apart.
- Be careful not to drop or hit magazines against things. Also, do not apply strong force to trays which have been withdrawn.
- Application of benzine, thinner, insecticide or other volatile liquids to a magazine may damage the surface, so keep magazines away from such substances.

AFFIXING LABELS TO 6 DISC MAGAZINE

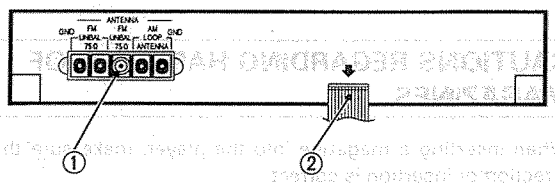
- Always attach the labels provided in the designated locations. Correct operation may not be possible if labels or tape are attached in other locations.



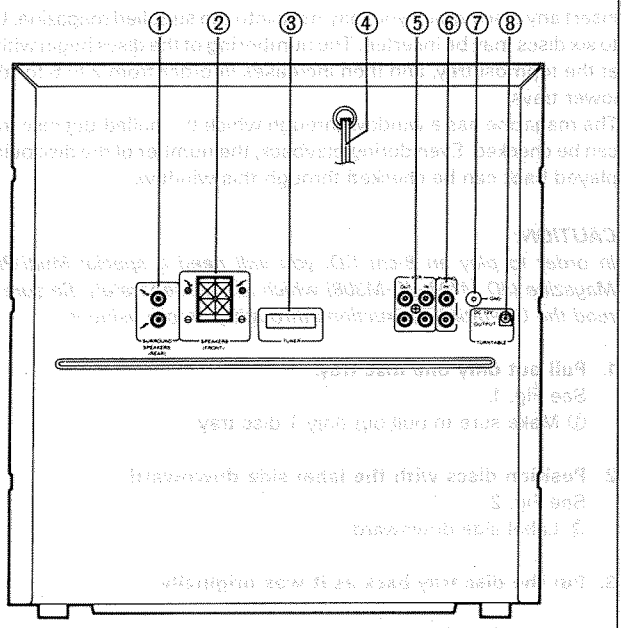
The following are convenient ways of using labels:
A: For titles
B: For disc names
C: For classification
- Do not attach on top of other labels.

PANEL FACILITIES

F-J220



XD-J225M/XD-J125M



REAR PANEL FACILITIES

Tuner: F-J220

① FM/AM ANTENNA terminals

Antennas must be connected to these terminals, otherwise, you will not be able to receive stations. See page 6 for details on ANTENNA CONNECTIONS.

② TUNER flat cable

Connect to the TUNER jack of the CD cassette deck amplifier.

Multi-CD cassette deck amplifier: XD-J225M/XD-J125M

① SURROUND SPEAKERS jacks

Connect the surround speaker systems here.

NOTE:

Connect a speaker system having a nominal impedance of 16 Ω or more.

② SPEAKERS terminals

L: Connect the left speaker system as seen from the listening position.

R: Connect the right speaker system as seen from the listening position.

NOTE:

Connect a speaker system having a nominal impedance ranging from 8 Ω to 16 Ω.

③ TUNER jacks

Connect the tuner flat cable here.

④ Power cord

Connect this to an AC wall socket.

⑤ VCR IN/OUT jacks

IN : Connect to audio output jacks of VCR.
OUT : Connect to audio input jacks of VCR.

⑥ PHONO input jacks

Connect the audio cord of the turntable to these jacks.

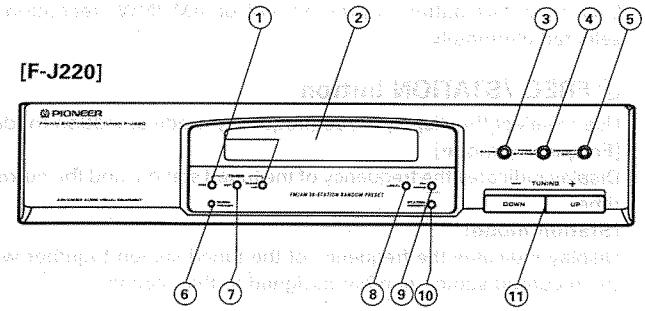
⑦ Ground terminal (GND)

Connect this to the ground terminal on the turntable (except for PL-J210).

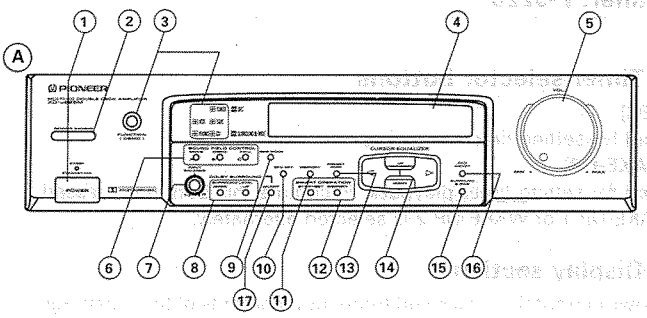
⑧ TURNTABLE (DC 12V OUTPUT) jack

This jack supplies power to turntable PL-J210.
Connect the power supply cord of the turntable to this jack.

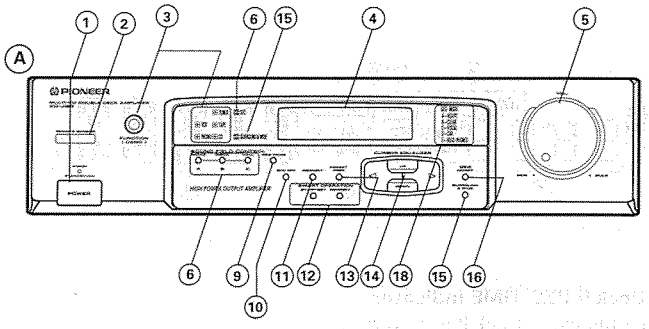
[F-J220]



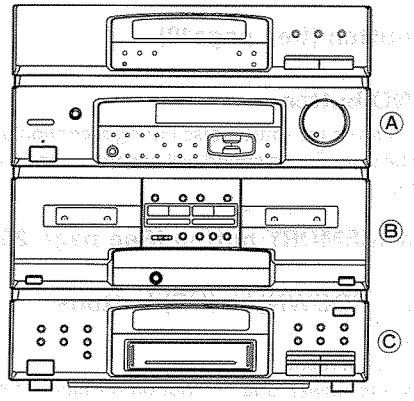
[XD-J225M]

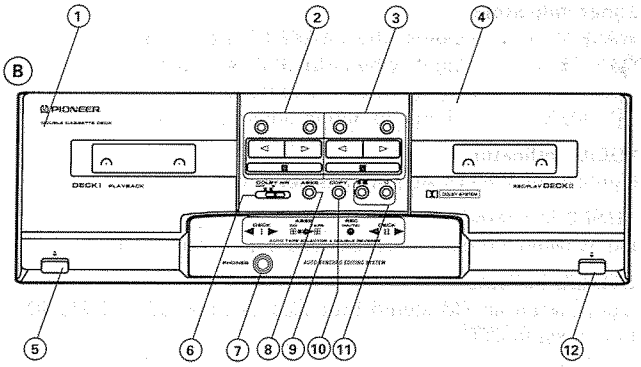


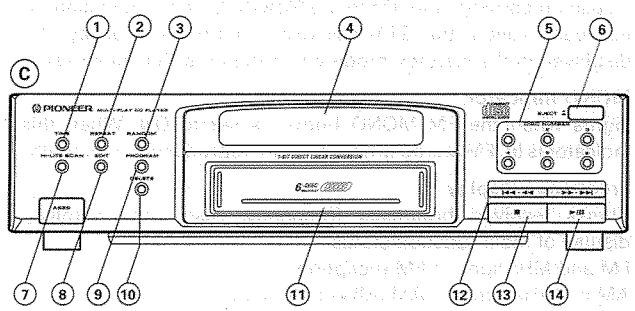
[XD-J125M]

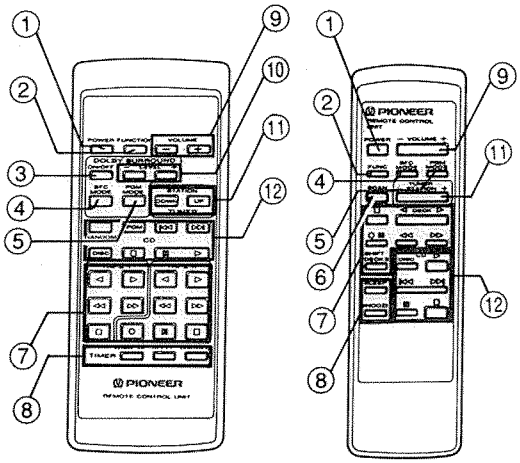


[F-J220 and XD-J225M]









[XD-J225M]

[XD-J125M]

FRONT PANEL FACILITIES

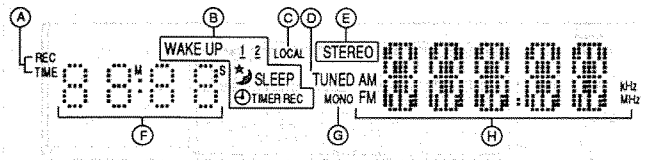
Tuner: F-J220

① Timer selector buttons

[REC]
Used for setting timer recording.
[WAKE-UP]
Used for setting timer playback. Each time this button is pressed, WAKE-UP 1 or WAKE-UP 2 is selected alternately.

② Display section

Shows current time, received frequency, contents of timer settings, etc.



Ⓐ **Deck II REC TIME indicator**
Lights when Deck II is recording.

Ⓑ **Timer indicators**
WAKE-UP 1 , 2 : Lights when WAKE-UP 1 or 2 is set.
SLEEP : Lights when SLEEP timer is set.
REC : Lights when the timer recording is set.
TIMER : Lights up during timer operation.

Ⓒ **LOCAL indicator**
Lights when the LOCAL button is set to ON.

Ⓓ **TUNED indicator**
Lights when a broadcast is received and tuned in well.

Ⓔ **STEREO indicator**
Lights when an FM stereo broadcast is received (FM MONO button set to OFF).

Ⓕ **Time display**
This shows the present time and during recording, it shows the elapsed recording time. Once a STATION (broadcasting station) has been called, the STATION CALL number will always be displayed in the standby mode when the timer has been set.

Ⓖ **MONO indicator**
Lights when the FM MONO button is set to ON. When this indicator is lit, FM stereo broadcasts are reproduced monaurally.

Ⓗ **Frequency display**
Shows received broadcast frequency. Also gives scrolling display of main function status.
FM and MHz light : FM reception.
AM and kHz light : AM (MW) reception.

NOTE:
The elapsed recording time might not be displayed due to noise from the power supply. In such a case, disconnect the power cord and connect it again.

③ BAND selector button

Each time this button is pressed, FM or AM (MW) reception is selected alternately.

④ FREQ./STATION button

Use to select the display mode (frequency mode or station mode).
[Frequency mode]
Display indicates the frequency of the tuned station, and the current time.
[Station mode]
Display indicates the frequency of the tuned station together with the recorded station number assigned to that station.

⑤ MEMORY SCAN button

Used for scanning memorized stations.

⑥ CLOCK ADJUST button (See page 19)

⑦ SET button

Used for current time, timer playback, and timer recording setting.

⑧ LOCAL button (See page19)

⑨ FM MONO button

Turn on when there is too much noise during reception of FM stereo broadcasts. The reproduced sound will become monaural but noise will be reduced.

⑩ STATION MEMORY button (See page 20)

⑪ TUNING − (DOWN)/+ (UP) buttons

[During tuning]
Used for locating stations.
Use "−" button for lower, and "+" button for higher frequencies.
[During time and timer setting]
Used for adjusting the clock, timer settings and its related adjustments.

Multi-CD cassette deck amplifier: XD-J225M/XD-J125M

- This unit has an automatic tape type selector.
- Tapes can be played back on Deck I; tapes can be played back and recorded on Deck II.
- Sound can be recorded as adjusted by the graphic equalizer (excluding synchro copy).
- Use a TYPE I (normal) or TYPE II (High/CrO_2) tape.

Ⓐ: ◪ Amplifier section

① POWER STANDBY/ON switch /STANDBY indicator

This is the switch for electric power.

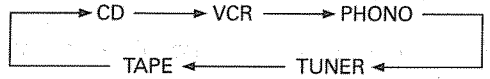
ON : When set to the ON position, power is supplied and the unit becomes operational.

STANDBY : When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.
The unit is in STANDBY when only the STANDBY indicator above the POWER switch is lit.

② REMOTE SENSOR window

③ FUNCTION (DEMO) button and indicators

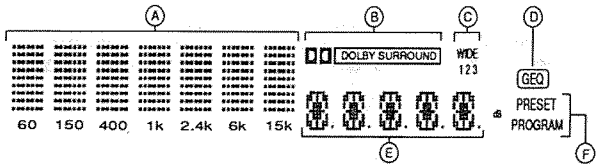
Used to select the desired source. Each time this button is pressed, the source switches as follows.



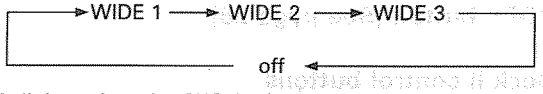
The selected indicator lights.

④ Display section

XD-J225M

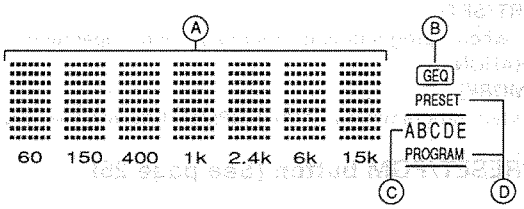


Ⓐ Visual display of spectrum analyzer and graphic equalizer.
Ⓑ Lights when the DOLBY SURROUND ON/OFF button is turned on.
Ⓒ Lights when the SURROUND & WIDE button is pressed. Each time it is pressed, the indicator switches as follows.



Ⓓ This lights when the GEQ ON/OFF button is on.
Ⓔ Displays the mode names for SOUND FIELD CONTROL and GEQ MODE and the level of the surround speakers during use of the DOLBY SURROUND mode. Also displays the volume level when the SURROUND & WIDE function is ON.
Ⓕ This indicates the memory (PRESET or PROGRAM) that can be recalled with the PRESET/PGM button.

XD-J125M



Ⓐ Visual display of spectrum analyzer and graphic equalizer.
Ⓑ This lights when the GEQ ON/OFF button is on.
Ⓒ Display of the memory being recalled with the GEQ MODE button (A, B, C, D, or E lights) or SOUND FIELD CONTROL button (A, B, or C lights).
Ⓓ These underlines indicate the memory (PRESET or PROGRAM) that can be recalled with the PRESET/PGM or GEQ MODE button.

⑤ VOL. (Volume) control

⑥ SOUND FIELD CONTROL buttons and indicators (MOVIE/A, DISCO/B, HALL/C) (See page 25)

⑦ INPUT BALANCE control (XD-J225M only)

This knob is for adjusting the balance of the DOLBY SURROUND input signal. To adjust, first select ON with the DOLBY SURROUND ON/OFF button. Then apply a monaural sound signal and rotate the knob until the SURROUND sound from the surround speakers is minimal.
Making adjustments at this time is easier if you disconnect the front speakers.

NOTE:
Perform these adjustments to assure a correct surround sound reproduction.

⑧ SURROUND LEVEL button (XD-J225M only)

[DOWN/UP]
Adjust the volume of the surround speaker when DOLBY SURROUND or SURROUND & WIDE button is ON.
UP : Increases in the volume to 16 dB.
DOWN : Decreases in the volume to −50 dB.

⑨ GEQ MODE button (See page 24)

⑩ SFC OFF button

Press to reset the sound field control to no effect.
Turns off SURROUND & WIDE and adjusts GEQ to FLAT.

⑪ MEMORY button (See page 25)

⑫ SMART OPERATION buttons (See page 29)

[START/SET]
Use when programming memory and operating SMART OPERATION.
[MEMORY]
Use when programming SMART OPERATION into memory.

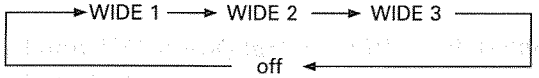
⑬ PRESET/PGM button (See page 25)

⑭ CURSOR EQUALIZER buttons (See page 24)

Use to adjust graphic equalizer settings.
[◁, ▷] :Use these to change the frequency range to be adjusted.
[UP, DOWN] :Use these to adjust the degree of equalization.

⑮ SURROUND & WIDE button and indicator

By turning this switch ON, you can enjoy surround reproduction when surround speakers are used.
By turning this button ON, you can enjoy WIDE reproduction with greater left-right spread when surround speakers are not used.
Each time this button is pressed, WIDE effect switches as follows.



The WIDE effects of the sound intensify in the order of WIDE 1 → 2 → 3.
The SURROUND & WIDE indicator will light.

NOTE:
In the case of monaural source, SURROUND & WIDE effects cannot be obtained.

⑯ GEQ ON/OFF button

This switches the graphic equalizer on/off. When it is on, the GEQ indicator in the display section lights.

⑰ DOLBY SURROUND ON/OFF buttons (XD-J225M only)

⑱ GEQ MODE printed indicators (XD-J125M only)

Displays of the preset equalization pattern name being recalled with the GEQ MODE button.

Ⓑ: ◪ Cassette deck section

① Deck I cassette door

② Deck I operation buttons

▷ (PLAY:FWD)	: For playing back a tape in the forward mode.
◁ (PLAY:REV)	: For playing back a tape in the reverse mode.
■ (STOP)	: For stopping the tape.
►► (FAST)	: Fast forward in forward mode, rewind in reverse mode. Music search can also be carried out.
◄◄ (FAST)	: Rewind in forward mode, fast forward in reverse mode. Music search can also be carried out.

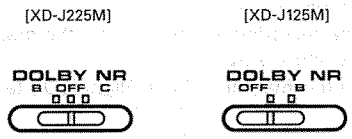
③ Deck II operation buttons

Same as Deck I operation buttons ②.

④ Deck II cassette door

⑤ Deck I EJECT button (⏏)

⑥ DOLBY* NR switch



Only the Dolby B-type NR for XD-J125M.

*
- *Dolby noise reduction is manufactured under license from Dolby Laboratories Licensing Corporation.*
- *DOLBY and the double-D symbol ◻◻ are trademarks of Dolby Laboratories Licensing Corporation.*

⑦ PHONES (Headphones) jack

For stereo headphones.

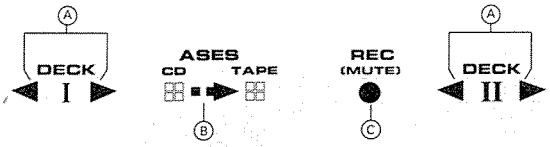
NOTE:
There is no output from the speakers when headphones are plugged into PHONES jack.

⑧ A.S.E.S. buttons (See page 28)

Used for recording a CD on a cassette tape automatically.

NOTE:
FINE is the mode when performing CD player EDIT (Computer Allocated Program Editing).

⑨ Operation indicators



Ⓐ **Direction** (▷, ◁): Indicates direction of tape travel during recording or playback.
Ⓑ **ASES**: Lights when in the ASES mode.
Ⓒ **REC (MUTE)**: Lights when in REC or REC mute. Flashes during tape copying.

⑩ COPY button (See page 28)

⑪ Deck II control buttons

● II (REC PAUSE)	: Pressing this button sets recording standby mode. Pressing the PLAY button (◄ or ►) next starts recording. Pressing this button during recording sets Rec pause mode.
O (MUTE)	: Used for creating a blank space between songs. (See page 23)

⑫ Deck II EJECT button (⏏)

Ⓒ : ◪ CD player section

① TIME button

Use to select the display mode on the display section.
Each time this button is pressed, the indication changes from TIME, REMAIN (track remain) and REMAIN (disc remain) disc TOTAL: This will not be displayed during programmed playback to TOTAL respectively.

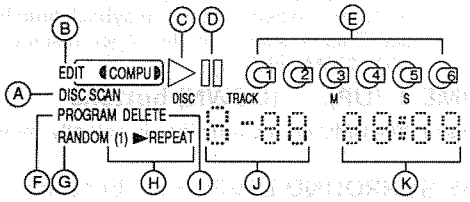
② REPEAT button (See page 26)

Press this button for repeat playback.

③ RANDOM button

Press to begin random playback.

④ Display section



Ⓐ **DISC SCAN** : Lights after pressing the HI-LITE SCAN button.

Ⓑ EDIT COMPU : Normally EDIT COMPU is lit. When the EDIT button is pressed, ◖◗ marks lights up.

Ⓒ ▷ : Lights during playback.

Ⓓ ▯▯ : Lights during temporarily interrupted playback.

Ⓔ ⊖ <**DISC symbol**> : If a nonexistent disc is searched for, the corresponding disc symbol goes off.

Ⓕ **PROGRAM** : Lights after programming (after program has been memorized).

Ⓖ **RANDOM** : Lights during random playback.

Ⓗ **(1)► REPEAT** : Lights during repeat playback of one tune.
(1) extinguishes during repeat playback of all tunes.

Ⓘ **DELETE** : Lights during delete.

Ⓙ DISC TRACK 8-88 : Indicates the disc and the track currently being heard.

Ⓚ M S 88:88 : Displays the minutes and seconds of the elapsed time, total playback time, and remaining time.

NOTE:
When power is turned on, the CD player section indicators show different indications depending on the condition (disc loaded or not, etc.) prior to when the power was turned off. This is not a malfunction.

⑤ DISC NUMBER buttons (1—6)

Use to select disc numbers for playback or programming.

⑥ EJECT button (⏏)

Press to eject a magazine. When pressed, any magazine inside is expelled forward.

⑦ HI-LITE SCAN button (See page 26)

⑧ EDIT button (See page 28, A.S.E.S.)

⑨ PROGRAM button (See page 27)

Use to program a sequence of tracks.

⑩ DELETE button (See page 27)

⑪ Magazine insertion slot

⑫ Manual/Track search buttons (I◄◄ · ◄◄, ►► · ►►I) (See page 22)

⑬ STOP button (■)

Press to stop playback. When pressed, the player goes into stop mode and all operations stop.
[LAST DISC MEMORY]
If no program had been input when the STOP button (■) is pressed to stop the disc, the number of the disc that was just played will be displayed (the track number is "01").
When the STOP button (■) is pressed again, the DISC NUMBER displayed will change to "1".
If a program had been input, the disc will be stopped with the DISC NUMBER of the first step and song number displayed.

⑭ PLAY/PAUSE button (►/▮▮)

During stop, press this button to start playback. During playback, press this button to pause.
When this button is pressed during highlight scanning, the highlight scan will be released, and the disc will be played normally.

Remote control unit

① POWER button

② FUNCTION button

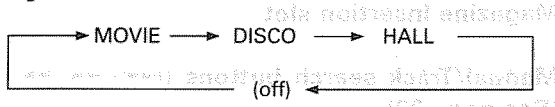
Each time this button is pressed, it switches as follows.

The selected indicator lights.

③ DOLBY SURROUND ON/OFF button (XD-J225M only)

④ SFC MODE button

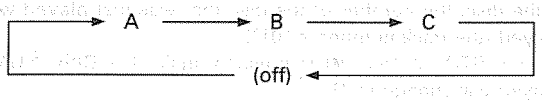
Use to select one of the preset sound fields. Each time the button is pressed, one of the preset sound fields will be selected, in the following order:



Turns off SURROUND & WIDE and adjusts GEQ to FLAT.

⑤ PGM MODE button

This button is used when selecting one of your own personally created sound fields. Each time this button is pressed, one of the sound fields will be selected, in the following order:



Turns off SURROUND & WIDE and adjusts GEQ to FLAT.

⑥ SCAN button (XD-J125M only)

When the function is set to TUNER: This button is used for scanning memorized stations.
When the function is set to CD: This button is used for Hi-Lite Scan.

⑦ Deck operation buttons

XD-J225M

[TAPE I]
◁, ▷ : Begins playback
◄◄, ►► : Fast Forward or rewind
■ : Stop

[TAPE II]
◁, ▷ : Begins playback
◄◄, ►► : Fast Forward or rewind
■ : Stop
● : To set to recording standby mode. The REC indicator lights and the direction indicators (◄ and ►) flash. Recording begins when you press the PLAY button (◄ or ►).
❚❚ : Temporarily stops tape travel. Cancels pause mode when pressed again or press the PLAY button (◄ or ►).

XD-J125M

◁, ▷ : Begins playback
◄◄, ►► : Fast Forward or rewind
■ : Stop
●❚❚ : Pressing this button sets recording standby mode. Pressing the PLAY button (◄ or ►) next starts recording. Pressing this button during recording sets REC PAUSE mode.
Temporarily stops tape travel. To cancel pause mode, press the PLAY button.
SHIFT TAPE I : To operate Deck I, press the desired deck operation while pressing this button.

⑧ Timer operation buttons

SLEEP : Sets the sleep timer.
SNOOZE : Turns off power if pressed after timer playback begins. Timer playback begins again approximately 5 minutes later.
WAKE-UP : Timer playback setting/cancellation can be performed when the timer playback time has been set. This is shown in the tuner display section. (XD-J225M only)

⑨ VOLUME + (UP)/ − (DOWN) buttons

When pressed, VOLUME on the amplifier is actually moved by a motor.

⑩ DOLBY SURROUND LEVEL +/− buttons (XD-J225M only)

Adjust the volume level of the surround speakers when DOLBY SURROUND or SURROUND & WIDE is on.
+ .... Increases in the volume to 16 dB.
− .... Decreases in the volume to −50 dB.

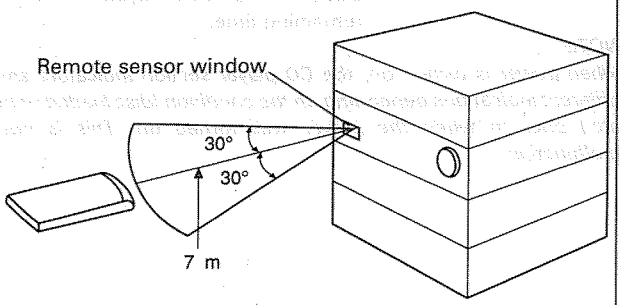
⑪ TUNER STATION DOWN, UP buttons

Used for locating stations. (See page 19)
DOWN : Stations change in order in the downward direction.
UP : Stations change in order in the upward direction.

⑫ CD operation buttons

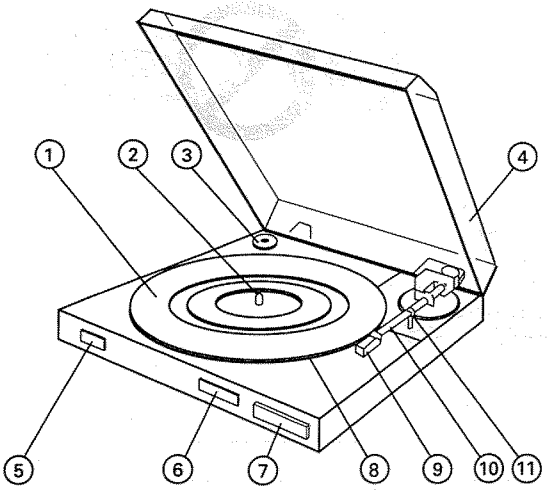
RANDOM : Does a RANDOM playback. (XD-J225M only)
PGM : Select programmed CD playback. (XD-J225M only)
► : Play
DISC : DISC selection
■ : Stop
❚❚ : Pause (To release, press PAUSE button once more, press PLAY button, or press the PLAY/PAUSE button of the main unit.)
I◄◄, ►►I : Track search

Range of remote control



Distance: Within a range of approximately 7 meters from the remote sensor window.
Angle: Within approximately 30 degrees from the center of the remote sensor window.
Performance of the remote control unit is adversely affected in the presence of a strong fluorescent light. Keep such lights away, especially from the sensor window.

Turntable: PL-J210



① Platter mat

② Platter spindle

③ EP adaptor
Place over the spindle to play 45-rpm singles.

④ Dust cover

⑤ SPEED switch
Set this switch in accordance with the speed of the record.
33: For 33-1/3 rpm records.
45: For 45 rpm records.

⑥ ARM ELEVATION switch
- To suspend record play temporarily.
- For changing the tracks during actual play.

[UP] : The tonearm rises (the stylus moves away from the record).
[DOWN] : The tonearm descends (the stylus is lowered onto the record).

⑦ STOP (■) button
Press this button when stopping play.

⑧ Platter

⑨ Cartridge

⑩ Tonearm

⑪ Armrest

HOW TO HANDLE CASSETTE TAPES

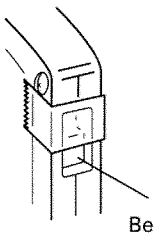
Bear in mind the following points before loading cassette tapes.

Is the tape loose, or is some of the tape outside the cassette?
Insert a pencil into the reel hole and take up the slack (Fig. A).

What are the accidental erasure prevention tabs for?
If you break the cassette tape erasure prevention tabs with a screwdriver or other instrument, recording is no longer possible, so there's no worry of accidentally erasing a valuable recording (Fig. B). When you want to record again on a cassette with broken erasure prevention tabs, cover the tab sections with a double layer of cellotape or other tape (Fig. C).

With TYPE II (HIGH/Chrome) tape, be sure not to cover the tape-type detection holes. If they are covered, the auto tape selector function will not operate correctly.

Fig. C



Be sure not to cover the tape-type detection holes.

Tips on using cassette tapes
- Do not leave a cassette tape exposed to the environment. Store the cassette in its case so that dust and dirt do not adhere to the tape after use, and so that the tape is prevented from becoming slack. Choose a location which is not exposed to the effects of magnetism, dust, dirt, or oil for storing the tapes.
- Because C-120 tapes are so thin, they easily jam in the pinch roller and capstan, and they are susceptible to other trouble such as irregular winding. Try not to use them with this unit. Use tapes of 90 minutes or less.

Fig. A

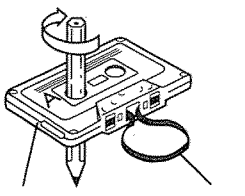
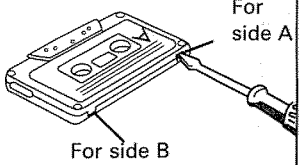
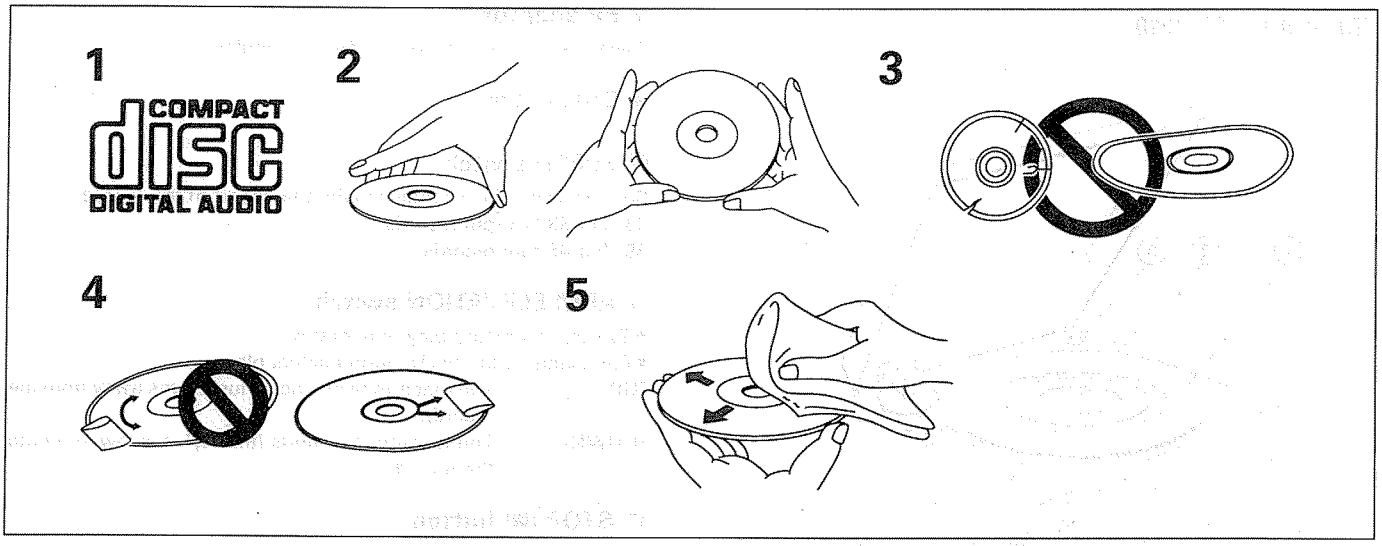


Fig. B



CAUTIONS REGARDING COMPACT DISC HANDLING



CARE OF DISCS

- With this unit, use discs which display the mark shown in Fig. 1.
- When holding discs, do not touch their signal surfaces. See Fig. 2.
- Do not affix labels or adhesive tape to the label surfaces. Also, do not scratch or damage the label.
- Discs rotate at high speed inside the unit. Do not use damaged (cracked or warped) discs. See Fig. 3.

CLEANING DISCS

- Always keep your discs clean by wiping them gently with a soft cloth from the inner edge toward the outer perimeter. See Figs. 4 and 5.
- If a disc becomes dirty, wet a soft cloth in water. After wringing it out well, wipe the dirt away gently, and then remove any water drops with another soft dry cloth.
- Do not use record cleaning sprays or anti-static agents on discs. Also, never clean discs with benzene, thinner or other volatile solvents which may cause damage to the disc surface.

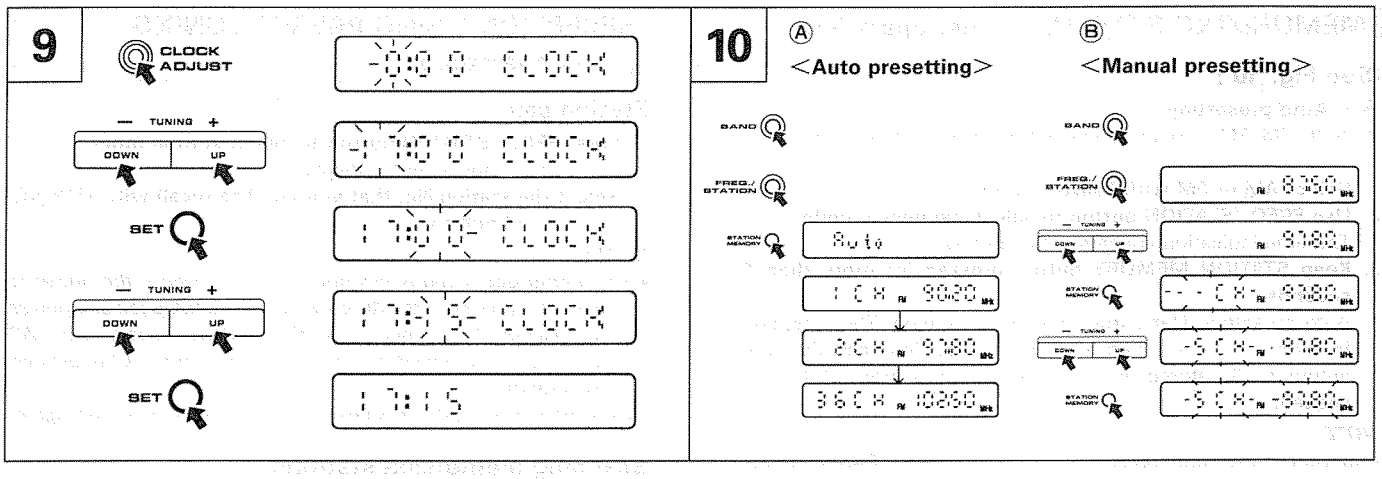
STORING DISCS

- Discs are made of the same kind of plastic used for conventional analog audio records. Be careful not to allow discs to warp; always store discs in their cases vertically, avoiding locations with high heat or humidity, or extremely low temperatures. Avoid leaving discs in cars. Being exposed to direct sunlight can be harmful.
- Always read and abide by the precautionary notes listed on the disc labels.

CD LENS CLEANER

The player's pickup lens should not become dirty in normal use, but if for some reason it should malfunction due to soiling, contact your nearest PIONEER authorized sevice center. Lens cleaners for CD players are commercially available, but special care should be exercised in their use since some may cause damage to the lens.

BASIC OPERATIONS



SETTING THE CLOCK (Tuner operation)

[Example] Setting the time to 17:15. (See Fig. 9)

1. **Press CLOCK ADJUST button with the point of a pencil.**
2. **Use TUNING "−" and "+" button to set the hour.**
3. **Press SET button.**
4. **Use TUNING "−" and "+" button to set the minutes.**
5. **Press SET button when "00" seconds of that minute are reached for precise adjustment.**

- After connecting to an AC outlet, be sure to set the present time. Timer playback and timer recording are not possible unless the time has been set.
- The time indication will appear as "--:--" if the AC power cord is unplugged. Be sure to set the time again after power is resumed.

PREPARATION

Press POWER switch of the CD cassette deck amplifier.
Select a program source with the FUNCTION button.

Auto Function

When XD-J225M/XD-J125M and F-J220 are used together.

This model is equipped with "auto function" operation, so when the button for playing CD, tape, or tuner is pressed, the amplifier's function switches automatically.
Use the FUNCTION button for PHONO and VCR source selection since Auto Function does not operate these source.

NOTE:
FUNCTION button cannot be switched during recording. (Auto function does not operate either.)

TUNING INTO STATIONS (Tuner operation)

1. **Select the desired broadcasting band using BAND selector button.**
2. **Press FREQ./STATION button to select frequency mode.** The time indication appears in the display.
3. **Press TUNING "−" or "+" button for higher or lower frequencies.**

[Auto tuning]
Press TUNING "−" or "+" button until the frequency starts to change, then release it.
The tuner will automatically search for a broadcasting station, and stop when one is found, and the TUNED indicator lights up. To search for another station, press again.
- To interrupt auto tuning, press TUNING (−/+) buttons again.

NOTE:
When auto tuning is in use, reception may not be possible for distant stations or when signals are weak. At these times manual tuning is recommended.

[Manual tuning]
Press TUNING "−" or "+" button and release quickly.
The tuning frequency will change by one step each time the button is pressed. Press as many times as necessary to tune in the desired station. The TUNED indicator lights up when the station is tuned in best.
- If you keep the TUNING (−/+) buttons depressed after the frequency has begun to change, the reception frequency changes continuously, and stops when the button is released.

4. **Adjust VOL. (Volume) control on the amplifier.**

FM stereo/monaural broadcast reception

When the FM MONO button is in the off position (MONO indicator is out), the STEREO indicator lights during reception of an FM stereo broadcast. If the FM stereo broadcast signal is weak, with a lot of noise, press the FM MONO button and the MONO indicator lights. Reception will be monaural, but noise will be reduced.

LOCAL function

If the broadcast station is very near, the FM broadcast signal may be too strong, resulting in noise and distortion. In this case, press LOCAL button. LOCAL indicator lights.

MEMORIZING STATIONS (Tuner operation)

(See Fig. 10)

Ⓐ <**Auto presetting**>

Up to 36 FM/AM stations can be automatically memorized.

1. **Select AM or FM with BAND button.**
2. **Use FREQ./STATION button to select frequency mode.**
   The time indication appears in the display.
3. **Keep STATION MEMORY button pressed for more than 5 seconds.**
   Auto presetting starts from the current station. The reception frequencies are scanned for receivable stations and they are automatically stored in the station memory from "1 CH" in sequence.

NOTE:

- *To cancel the auto presetting operation, press BAND button, TUNING "−", or "+" button.*
- *When either the LOCAL or FM MONO button is in its ON position, the button's function will automatically be tuned off before the unit begins the auto memory function.*

Ⓑ <**Manual presetting**>

Up to 36 FM/AM stations can be memorized at random.

1. **Select AM or FM with BAND button.**
2. **Press FREQ./STATION button to select frequency mode.**
   The time indication appears in the display.
3. **Tune in the desired station with TUNING "−" or "+" button.**
4. **Press STATION MEMORY button.**
   "CH" appears on the display.
5. **Select the station number to be memorized with TUNING "−" or "+" buttons.**
   Operate while the display is flashing (it flashes for approximately 5 seconds).
6. **Press STATION MEMORY button.**
   Operate while the display is flashing (it flashes for approximately 5 seconds).
   The displayed frequency is stored in the selected station No..
   Repeat steps 1 through 6 to memorize up to 36 stations.

NOTE:

When an FM station is stored in memory, the ON/OFF status of the LOCAL and FM MONO buttons is simultaneously stored with the station.

RECEPTION USING PRESET TUNING (Tuner operation)

Station call

1. **Press FREQ./STATION button to select station mode.**
   Station No. appears in the display.
2. **Select the station No. that you want to recall with TUNING "−" or "+" button.**

NOTE:

- *The memorized stations will not be erased even if the power is turned off. However, if the AC power cord is unplugged or a power failure occurs, the memorized stations will be erased. (If the AC power cord is unplugged, the memorized stations will be retained for several days.)*
- *If the memorized stations have been erased, memorize them again.*

Scanning memorized stations

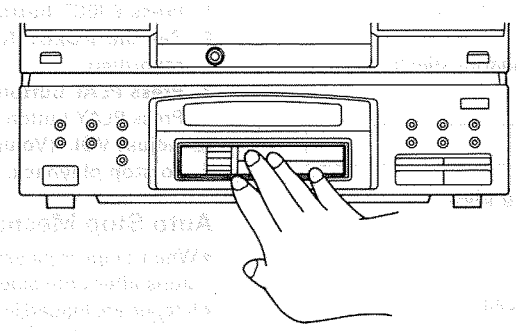
1. **Press MEMORY SCAN button during station reception.**
   Each memorized station is tuned in for approximately 5 seconds. If the TUNED indicator does not light, the unit will move onto the next station immediately.
2. **Press MEMORY SCAN button again as soon as the desired station is tuned in.**

Last station memory

The last received AM and FM stations remain stored despite FUNCTION button and/or POWER switching. To recall, use BAND selector button.

COMPACT DISC PLAY

11



Operation procedures before playback (Insertion of magazine or discs)

(See Fig. 11)

1. **Push in POWER switch of amplifier section and switch ON power.**
2. **Insert a magazine, pushing it in until a click sound is heard.** Please insert the discs you want to play into the magazine beforehand. (Refer to page 9 "INSERT DISCS INTO THE SIX-DISC MAGAZINE".)

Procedures after playing (Removal of magazine or discs)

1. **Press EJECT button (⏏) and eject the magazine.**
2. **Pull the magazine out.**
3. **Push in POWER button to turn on STANDBY power.**

Operations for normal playback (▶/❚❚)

Playback of all tracks, from the first track on the first disc, to the last track on the sixth disc.

1. **Carry out "Operation procedures before playback", and insert the magazine.**
2. **Press PLAY/PAUSE button (▶/❚❚).**
   The (▶) indicator will light, and playback will begin.
   The indicators will display the disc number and track number currently being played and the elapsed playback time.
3. **Adjust VOL. (Volume) control on the amplifier, and tone with the graphic equalizer control.**

Caution:

Do not turn the power off during playback as this may damage the disc.

To start playing back from a desired track (Direct Disc and Track Search Operation)

1. **During playback, stop or pause mode, select a disc number with a DISC NUMBER button and a Manual/Track search button (I◀◀ · ◀◀, ▶▶ · ▶▶I).**
   - If only a disc number is selected, playback will begin from the first track on the specified disc.
   - If only a track number is selected, playback will begin from the specified track on the disc for which the player is in playback or pause mode.
2. **When selecting with Manual/Track search buttons only, press the PLAY/PAUSE button (▶/❚❚) to begin playback.**

NOTE:

- *Do not press the Manual/Track search button (I◀◀ · ◀◀, ▶▶ · ▶▶I) continuously as manual search will be set and the track cannot be specified.*
- *When a track number of a track not on the disc is selected, playback starts from the first track.*
- *Track selection cannot begin from the disc number of a magazine tray which does not contain a disc.*
- *Performing a direct disc search operation during random playback causes random playback to be cancelled.*
- *Playback from a direct disc or track search is not possible when a program is being input in stop mode.*
- *When there is no magazine inserted and PLAY/PAUSE button (▶/❚❚) or RANDOM button is pressed, "dISC" will appear in the indicator for 2.5 seconds.*

To stop playback (■)

Press STOP button (■) or EJECT button (≜).
- When the STOP button (■) is pressed once, the unit returns to the first track on the disc and enters the stop mode.
- When the STOP button (■) is pressed twice, the unit returns to DISC 1 and enters the stop mode.
- When EJECT button (≜) is pressed, the magazine ejects.

Pause operation (❚❚)

Press the PLAY/PAUSE button (►/❚❚) during play.
The pause indicator lights up.

To start play
Press the PLAY/PAUSE button (►/❚❚) once again.
The indicator turns off.

TO LOOK FOR A DESIRED TRACK (I◄◄, ►►I) (TRACK SEARCH OPERATIONS)

Operate during normal play, programmed play, and pause.
Press and release the Manual/Track search button (I◄◄ · ◄◄, ►► · ►►I), and track search for the start of a track begins. Pressing repeatedly lets you skip tracks. Search during programmed play searches for programmed tracks.

►► · ►►I: Searches for the beginning of the next track.
I◄◄ · ◄◄: Searches for the beginning of the track currently playing.

FAST FORWARD AND REVERSE (◄◄, ►►) (MANUAL SEARCH OPERATIONS)

Operate during normal play, programmed play, and pause.
Continue to press the Manual/Track search button (I◄◄ · ◄◄, ►► · ►►I), for high speed play. During programmed play, high speed play of the currently playing track only is possible.

►► · ►►I: Forward
I◄◄ · ◄◄: Reverse

Continuing search to the end of a disc switches you to the pause mode.(The indicator will display "End".) Normal play resumes when you return to the beginning of the disc.

TAPE PLAY (Cassette deck operation)

Tapes may be played back in Deck I or Deck II but not in both decks at the same time.

1. **Press EJECT button (≜), and load a recorded cassette tape.**
2. **Set the DOLBY NR switch to the same position used for recording.**
3. **Press PLAY button (▷ or ◁).**
   Press PLAY button (▷ or ◁) of the loaded deck.
4. **Adjust VOL. (Volume) control on the amplifier.**
5. **To stop playback, press STOP button (■).**

Auto Stop Mechanism

- When a tape is played back on Deck I or Deck II, play automatically stops after both sides of the tape have been played six times.
- If tapes are loaded in both Deck I and Deck II, and the cassette tape in Deck I has finished playing in the reverse direction (◁), playback begins in the forward direction (▷) on Deck II (Relay Play). Playback automatically stops after the tape in Deck II finishes playing in the reverse direction (◁).
- When recording, recording automatically stops when the cassette tape finishes recording in the reverse direction (◁).
- Load both Deck I and Deck II with cassette tapes, start playback (▷) on Deck II, and playback will stop after the tape finishes playing in both directions.

NOTE:
When the PLAY button (▷ or ◁) of one deck is pressed while the other deck is in playback mode, the former stops and the latter starts playback.

MUSIC SEARCH (Cassette deck operation)

You can perform music search during playback by carrying out the following:
- **To listen to the following program, press FAST button (►►) of the same direction as playback.**
- **To listen to the current program again, press FAST button (◄◄) of the opposite direction to playback.**

During music search, the indicator for tape travel direction flashes. When doing music search, do not operate the other deck. Doing so may affect blank interval detection function. When the unrecorded portion between the two programs is located, playback resumes.

NOTE:
Music Search may not be possible due to the quality of the recording, or if the unrecorded sections between tracks are less than 4 seconds long.

RECORDING ONTO A CASSETTE TAPE (Cassette deck operation)

Material can be recorded on Deck II only. Recording is not possible on Deck I. You can make a recording of any source which has passed through the graphic equalizer.

1. **Press EJECT button (⏏), and load the cassette tape for recording into Deck II.**
   - Check to see that the accidental erasure prevention tabs are not broken off.
   - Make sure that there is no tape slack.
   - There is a leader tape section at the beginning of the tape, so start recording after the tape has been running for about 5 seconds.
2. **Set DOLBY NR switch to the desired position.**
   - A tape which has been recorded using the DOLBY NR system must be played back with the same system.
3. **Use the FUNCTION button on the amplifier to select the recording source.**

Program source	Selected indicator	Operation
Record	PHONO	Operate the turntable
Radio broadcast	TUNER	Tune into a broadcast
Compact disc	CD	Play a compact disc
Equipment which is connected to VCR jacks	VCR	Operate the equipment connected to VCR jacks

4. **Adjust the graphic equalizer controls to change the sound quality for recording. (See page 24)**
   - If you record with equalization, set the equalizer for flat response during playback.
5. **Press REC PAUSE button (● II).**
   - The REC indicator lights.
   - The direction indicator flashes.
6. **Press the appropriate PLAY button (▷ or ◁).**
   - When you start recording with the ▷ button; at the end of the tape, recording automatically continues in the ◁ direction (both-side recording).
   - When you start recording with the ◁ button, recording stops at the end of the tape.
7. **Play the recording source.**
8. **To stop recording, press STOP button (■).**

Auto reverse function

This unit uses rotary type recording and playback heads, and the same heads are used in both forward and reverse directions. Tape-end detection is employed to activate auto reverse operation which takes approximately 2 seconds after the tape is taken up.

NOTE:

A leader tape having a length equivalent to approximately 5 seconds is attached to an ordinary cassette tape. This means that for two-way travel of the leader tape there will be a break of approximately 12 seconds in the sound. Be very careful of this, particularly when making a two-way recording.

Pausing and restarting recording

1. **Press REC PAUSE (● II) or PAUSE (II) button of the remote control unit.**
   - Recording will be suspended.
2. **To restart recording again, press PAUSE (II) or PLAY button (▷ or ◁) of the remote control unit.**

Recording muting

Use this function to create 4-second blanks required for the music search operation.

- Press MUTE (O) button during recording, and the unit will stop recording sound on the tape for about 4 seconds and will enter the recording pause mode.
- To create a blank more than 4-seconds long, hold the button down for the desired time. The unit will enter the recording pause mode when you release the button.
- To resume recording, press PLAY (▷, ◁) button.

RECORD PLAY (Turntable PL-J210)

1. **Set FUNCTION button on the amplifier to PHONO.**
2. **Place record on the platter mat.**
3. **Set SPEED switch.**
4. **Set ARM ELEVATION switch to UP position.**
5. **Move the tonearm by hand to the desired position over the record.**
6. **Set ARM ELEVATION switch to DOWN position.**
   - The tonearm descends onto the record and playback starts.
7. **Adjust the volume with VOL. (Volume) control on the amplifier.**
8. **To stop the player while a record is being played, press STOP (■) button.**

PLAYING THE COMPONENTS CONNECTED TO VCR JACKS

1. **Set FUNCTION button on the amplifier to VCR.**
2. **Play the component connected to VCR jacks.**

USING THE DOLBY SURROUND (XD-J225M only)

- Before trying DOLBY SURROUND, check to see if the surround speakers are connected. (See page 6)

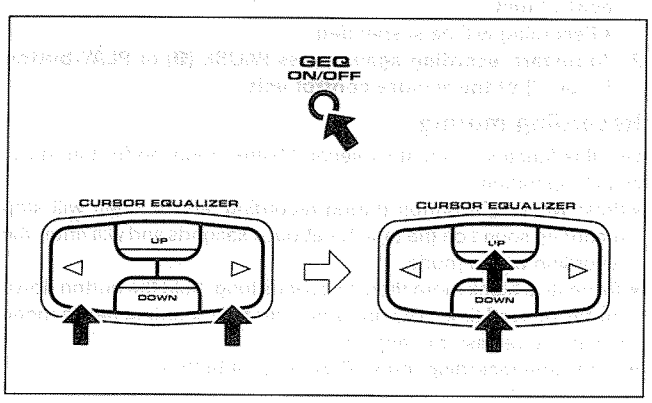
1. **Turn on DOLBY SURROUND by pressing the DOLBY SURROUND ON/OFF button.**
2. **Adjust the volume of the surround speakers using the DOLBY SURROUND LEVEL −/+ button of the remote control unit.**
3. **Adjust the input balance of "Surround".**
   When listening to monaural sound such as an AM broadcast, adjust the volume of the surround speakers to minimum using the INPUT BALANCE control on the front panel.
   - The balance adjustment of the front speakers will not change.

NOTE:

- *Up to two surround speakers (left, right) can be connected, but the output is monaural.*
- *Sound will only come from the surround speakers when the DOLBY SURROUND ON/OFF button, SURROUND & WIDE button and SOUND FIELD CONTROL button.*
- *The delay time is fixed at 20 ms and cannot be adjusted.*

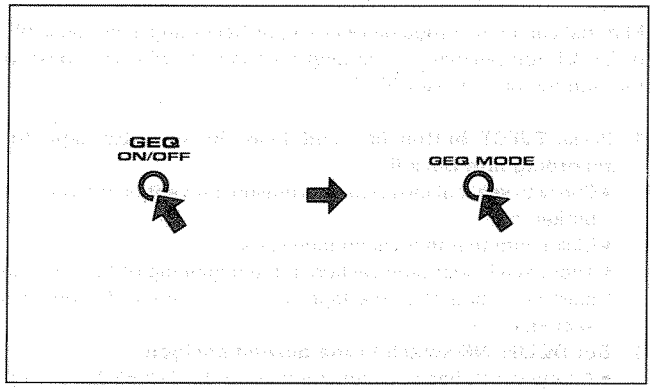
GRAPHIC EQUALIZER CONTROL

Adjusting sound quality with the graphic equalizer



1. **Press the GEQ ON/OFF button to switch on.**
   - The GEQ indicator in the display section lights.
2. **Select a frequency with the ◁, ▷ CURSOR EQUALIZER buttons.**
   - With the ◁, ▷ buttons, move the "---.---" so that it lights on and off at the location of the frequency you want to adjust.
3. **Adjust the level of equalization with the CURSOR EQUALIZER UP, DOWN buttons.**
   - Press the UP button to increase the level of equalization. Press the DOWN button to decrease the level of equalization.
4. **Repeat procedures 2 and 3 to create your desired equalization pattern.**

Selecting a preset equalization pattern



You can recall the following five preset equalization patterns.

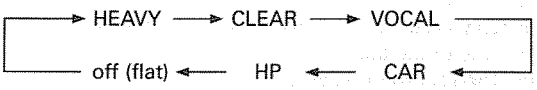
- **HEAVY/A** : This pattern boosts high and low frequencies, for a louder, more powerful sound. It's ideal for rock and pop music, and live performances.
- **CLEAR/B** : Ideal for fusion and electronic music, this pattern provides clear middles and highs.
- **VOCAL/C** : When listening to opera or musicals, this preset boosts the vocals so you can hear them clearly.
- **CAR/D** : This is a good equalization pattern to use when recording tapes for use on your car stereo.
- **HP (HEADPHONES)/E** : This is a good equalization pattern to use when recording a tape to listen to on headphones.

Use the CAR and HEADPHONES equalization patterns when recording tapes.

1. **Press the GEQ ON/OFF button to on.**
   - The GEQ indicator in the display section lights.
2. **Select your desired equalization pattern with the GEQ MODE button.**

[XD-J225M]

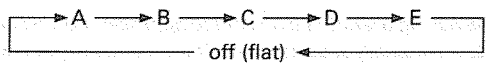
Each time the GEQ MODE button is pressed, one of the preset equalization patterns is selected in the following order:



The selected preset equalization pattern name appears on the display and PRESET indicator lights. The selected preset equalization indicator lights.

[XD-J125M]

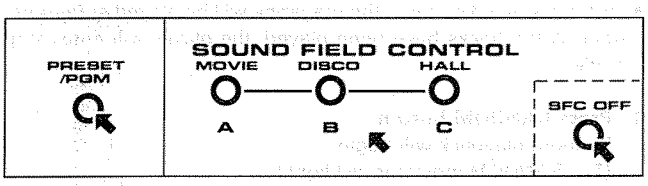
Each time the GEQ MODE button is pressed, one of the preset equalization patterns is selected in the following order:



- Refer to GEQ MODE printed indications on FRONT PANEL of cassette deck amplifier.
- The line under PRESET and designed preset equalization indicator (A, B, C, D, or E) in the display section lights.

SOUND FIELD CONTROL

Selecting a preset sound field setting



1. **Press the PRESET/PGM button to select PRESET.**
   The PRESET indicator in the display section lights. (XD-J225M only)
   The line under PRESET in the display section lights. (XD-J125M only)
2. **Select one of the 3 settings with the SOUND FIELD CONTROL buttons. The SFC and SURROUND & WIDE indicator will light.**
   MOVIE/A : Ideal for vocal music and visual software, the vocals emerge distinctively from the middle of a spreading sound field.
   DISCO/B : A discotheque sound field with a heavy bass and powerful beat.
   HALL/C : Stressing reverberation characteristics, this sound field has the effects of a classic concert hall.

[Note for XD-J225M]
- The desired preset sound field control name appears on the display.
- You can adjust the volume level of the surround speakers with the SURROUND LEVEL (UP/DOWN) buttons.

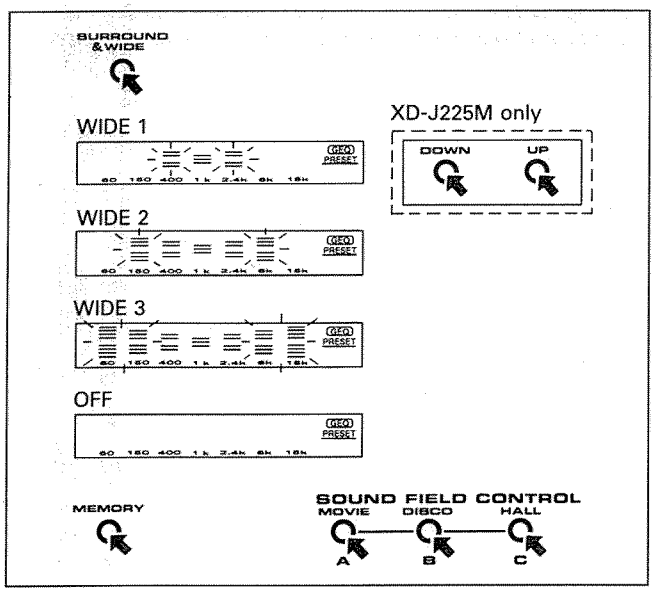
[Note for XD-J125M]
- The GEQ and desired preset sound field control indicator lights (A, B, or C).

To clear SOUND FIELD CONTROL settings:
Press SFC OFF button.

Programming your own sound field settings into memory

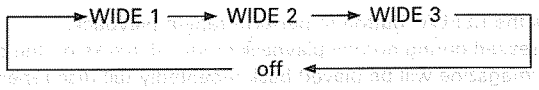
You can program up to 3 of your original sound field control settings into memory.

Using the memory



1. **Adjusting to achieve your desired sound with the graphic equalizer. (See page 24)**
2. **Select your desired expansive sound field with the SURROUND & WIDE button.**

Each time the SURROUND & WIDE button is pressed, the setting of the WIDE mode changes in the following order:



- XD-J225M: The wide pattern and WIDE indicator in the display section is switched, and the surround level display (dB) is shown.
- XD-J125M: The wide pattern on the display is switched.

WIDE 1:
Creates a more expansive sound field compared with the normal sound field.
WIDE 2:
Creates a more expansive sound field compared with WIDE 1.
WIDE 3:
Creates a more expansive sound field compared with WIDE 2.

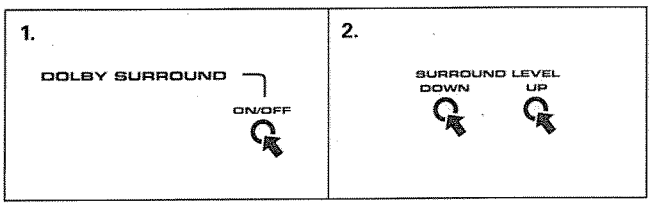
3. **Press the MEMORY button.**
   - PGM is indicated, and the graphic equalizer pattern and WIDE displays flash on and off. (XD-J225M only)
   - Graphic equalizer pattern display flashes on and off. (XD-J125M only)
4. **Press the SOUND FIELD CONTROL button (A, B, or C) that you want to use for programming.**
5. **Repeat procedures 1 to 4 to program into memory the other SOUND FIELD CONTROL buttons.**

Recalling settings from memory

1. **Press the PRESET/PGM button, and select PROGRAM.**
   - The PROGRAM indicator in the display section lights. (XD-J225M only)
   - The line under PROGRAM in the display section lights. (XD-J125M only)
2. **Press the SOUND FIELD CONTROL button (A, B, or C) for the memorized setting that you wish to recall.**

Creating the DOLBY SURROUND sound field (XD-J225M only)

Refer to INPUT BALANCE control on page 13.
When DOLBY SURROUND is turned ON, sound comes from the front speakers and surround speakers. This function reproduces a "live" atmosphere.



1. **Press DOLBY SURROUND ON/OFF button to ON so that the DOLBY SURROUND indicator lights.**
2. **Adjust the volume level of the surround speakers with UP, DOWN buttons.**

CD APPLICATION GUIDE

OPERATIONS FOR REPEAT PLAYBACK

Single track repeat mode:

The track currently playing will be repeated (single track repeat).

Repeat mode for all discs:

Press the REPEAT button to perform repeat playback.

- If pressed during normal playback mode, all tracks on the disc in the magazine will be played back repeatedly (all disc repeat).
- If pressed during programmed playback, the programmed tracks will be repeatedly played back in the programmed order (programmed repeat).
- In the case of random playback mode, after all the tracks have been played, random playback will start again (random repeat).
- Programming of only one disc — one-disc repeat.
- If "delete play" has been set, all songs that have not been deleted will be played repeatedly.

1. **With the player in the playback or stop mode, press the REPEAT button.**
   When pressed once, the player will enter the single track repeat mode and the [(1) ► REPEAT] indicator will light. If the button is pressed again, tracks on all discs in the magazine will be repeated and the [REPEAT] indicator will light.

2. **When the last track has been played back, playback will begin again from the first track.**
   Playback will be repeated until repeat playback is canceled.

To cancel the repeat mode

- Press REPEAT button until the REPEAT indicator will go out, and the player will revert to the normal (or programmed) playback mode.
- Press STOP button (■) or EJECT button (≜). Playback will stop and the repeat mode will be canceled simultaneously.

RANDOM PLAYBACK

- Each track of a disc set in the magazine will be played at random. After all the tracks have been played, the player will enter stop mode.

1. **Press RANDOM button.**
   Random playback will begin.
   (The RANDOM indicator will light.)
2. **Pressing RANDOM button once more will have the player select a track at random for playback.**

To cancel random playback operation

- Press STOP button (■) or EJECT button (≜). Playback will stop and random playback operation will be canceled simultaneously.
- Performing operations for playback from a direct disc search will also cancel random playback.

HI-LITE SCAN

Using this feature will cause 10 seconds of each track to be played back in sequence.
When stopping play, pressing the button once turns on the DISC HI-LITE SCAN, and pressing it twice turns on the TRACK HI-LITE SCAN. (These alternate during play)

- To play 10 seconds of each disc and track at a point about 1 minute after the beginning of the track.
- During disc scan (the [DISC SCAN] indicator is lit) the HI-LITE SCAN function operates on the first track of each disc in the magazine from disc 1 through disc 6.
- During track scan (the [SCAN] indicator is lit) the HI-LITE SCAN function operates on all tracks of each disc in the magazine from disc 1 through disc 6.
- To change the playback point, press the HI-LITE SCAN button at the desired point, while the unit is in playback mode. 10 seconds of each subsequent track will be played back from the selected point.

NOTE:

- *To stop the HI-LITE scan mode in the middle, press the STOP button (■). The ordinary playback mode will be resumed by pressing the PLAY/PAUSE button (►/❚❚).*
- *When the play time of the track is 1 minute or less, the 10-second passage will be played from the beginning of the track. If tracks are less than 10 seconds in length, the entire track will be played.*

TO PLAYBACK TRACKS IN A DESIRED ORDER (PROGRAMMED PLAYBACK)

- With this function, you can play back the tracks on the discs in the magazine in any order desired.
- By specifying disc numbers from 1 to 6, and track numbers from 1 to 99, you can select up to 32 steps for playback in any order you like.

Memorizing a program

1. **During the stop mode, press the PROGRAM button. PROGRAM indicator will light.**
2. **Press the DISC NUMBER button which contains the track to be programmed.**
   To program the entire disc, enter the desired disc number with the DISC NUMBER button and go to step 4.
   - When the (DISC NUMBER) button is pressed, "AL" (all tracks) appears on the display.
3. **Press the Manual/Track search button (I◄◄ · ◄◄, ►► · ►►I) so that the desired track number appears on the display.**
4. **Press PROGRAM button.**
5. **Repeat steps 2 through 4 for other tracks to be programmed.**
6. **Press the PLAY/PAUSE button (►/II).**
   The tracks are played in the programmed order. When all programmed tracks have been played, the player enters the stop mode.

Cancellation of programmed playback and clearing a program

- Pressing STOP button (■) will cause playback to stop. In this case the program stored in memory will not be cleared. To clear the program, press STOP button (■) once more.
- Press EJECT button (⏏). When pressed during playback, the magazine will eject, and the program will be cleared.

TO PROGRAM A PAUSE OPERATION (OPERATIONS FOR PAUSE PROGRAM)

A pause can be programmed in the same way as a track, by pressing the PAUSE button (II) on the remote control unit; however, a pause counts as one step.

NOTE:

- *A pause cannot be programmed at the beginning of a program (P-01), nor can two pauses be programmed one after the other.*
- *A pause inserted in a program is counted as one step.*
- *If a pause is programmed as the last step of a program, the player will not enter the pause mode.*

PROGRAMMING DURING PLAYBACK (Direct program)

Programming can be carried out during normal playback or Track Hi-Lite Scan playback. You can program the tracks while listening to a part of each track.

1. **During playback, press PROGRAM button.**
2. **Whenever a track to be programmed is played, press the PROGRAM button.**
3. **You can repeat step 2 until up to 32 tracks are programmed.**
4. **When finished, press PLAY/PAUSE button (►/II). The current playback is cleared and the tracks are played in the programmed order.**
   - Direct programming can also be carried out during Track Hi-Lite Scan playback by using the preceding procedure.

DELETE PROGRAMMED PLAYBACK

- When tracks that you do not wish to listen to are selected and programmed with this function, the programmed tracks will not be played even when PLAY/PAUSE button (►/II) is pressed and play is started.

1. **Press DELETE button. DELETE indicator will light.**
2. **Select a disc number with DISC NUMBER buttons and a track with Manual/Track search buttons (I◄◄ · ◄◄, ►► · ►►I).**
3. **Press DELETE button.**
4. **Repeat procedures 2 and 3.**

CASSETTE TAPE RELAY PLAYBACK

- When there are tapes in both Deck I and Deck II, relay play from Deck I to Deck II is possible.
- Relay playback is repeated in the following order:

Deck I forward play (▷) ⟶ Deck I reverse play (◁)
Deck II reverse play (◁) ⟵ Deck II forward play (▷)

- If there is a tape in only one of the decks, then it will be played continuously on both sides.

1. **Load the playback cassette tapes into Deck I and Deck II.**
2. **Set DOLBY NR switch to the same position used for recording.**
3. **Press the appropriate PLAY button (▷ or ◁) on Deck I.**
4. **To stop relay playback, press STOP button (■) of the operating deck.**

COPYING TAPES

Duplicating the recorded contents of one cassette tape onto another tape is known as cassette tape copying. The contents of the cassette tape in Deck I can be copied onto the cassette tape in Deck II (but not vice versa.) You cannot record a source using the graphic equalizer.

1. **Load the recorded cassette tape into Deck I and the cassette tape for recording into Deck II.**
   - Wind the tape forward past the leader to the start of the magnetic coating portion.
   - Tape copying begins from the forward direction (▷).
   - Both sides are copied from Deck I to Deck II.
   - Make sure there is no tape slack.
2. **To perform a normal copy while listening to playback, set FUNCTION button on the amplifier to TAPE and select the DOLBY NR switch position.**

Even if FUNCTION button is set to another position, tape copying will still proceed. The sound of the program source selected by FUNCTION button will be heard through the speakers.

3. **Press COPY button.**
   For cassette tape copying at normal speed while listening to it.
4. **Press STOP button (■) on either deck to stop the copying at any time.**

NOTE:

- *If you are using a TV in the vicinity of the unit, noise will be recorded. Either switch off the TV or move it away from the unit.*
- *There is variation in actual tape length even among cassettes of the same length label (C-60, C-90, etc.). Therefore, even if the recording tape is labeled as the same length as the playback tape, it is possible for the recording tape to end first without recording all of the contents of the playback tape.*

A.S.E.S. (Auto Synchro Editing System)

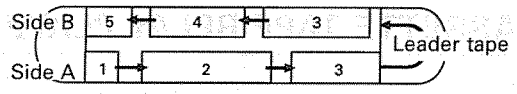
For automatic recording of a CD to a cassette tape. This unit offers two kinds of A.S.E.S. operation.

A.S.E.S. operation

- The numbers are the CD track numbers.

NORMAL:

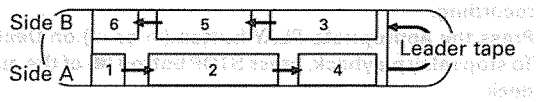
- If the recording is finished in the middle of a track at the end of side A, that track will be recorded from the beginning on side B.



- If the CD player section is operating in a programmed mode, then A.S.E.S. proceeds with the programmed song order.
- The NORMAL mode provides a blank space of about 5 seconds between songs.

FINE:

- Before recording, the CD player calculates which songs and how many will fit on your selected tape length (COMPU PGM) to minimize end-of-tape space.



When recording starts in the forward direction (►), at the end of the tape, the tape reverses and recording resumes in the reverse (◄) direction.
In the A.S.E.S. modes, a silent passage about five seconds long is inserted between tracks during recording.

NOTE:

A.S.E.S. is not possible with the "AL" (all track) program.

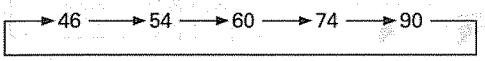
[NORMAL]

1. **Insert the 6 disc magazine into the CD player section.**
2. **Put a cassette tape to be recorded in Deck II.**
3. **Set DOLBY NR switch to the desired position.**
4. **To record the sound passed through the graphic equalizer, turn on GEQ ON/OFF button and adjust the sound quality.**
5. **Press the ASES button.**
   If tape remains, you can change the CD and continue recording using A.S.E.S.
   Perform 1—5, A.S.E.S. will finish temporarily.
6. **Change CD.**
7. **Press REC PAUSE (● ❚❚) or PAUSE (❚❚) button of the remote control unit.**
   - The Direction Indicator part of the display will flash in the direction of tape travel and recording will begin in that direction.
8. **Press ASES button to start to LINK A.S.E.S.**
   - Begin LINK A.S.E.S.
   - With LINK A.S.E.S., if the CD playing time is shorter than the tape, A.S.E.S. will finish in the REC PAUSE condition. If you wish to continue and record a different CD, change CDs and press the ASES button.
   - In the following situation, A.S.E.S. will finish in the stop condition:
     If the CD playing time is longer than the tape.

A.S.E.S. (Auto Synchro Editing System)

[FINE]

1. **Insert the 6 disc magazine into the CD player section.**
   • Load magazine trays 1 and 2 with CDs.
2. **Put a cassette tape to be recorded in Deck II.**
3. **Set DOLBY NR switch to the desired position.**
4. **To record the sound passed through the graphic equalizer, turn on GEQ ON/OFF button and adjust the sound quality.**
5. **Press the EDIT button of the CD player section.**
6. **Specify the recording time of the cassette tape within 3 seconds, using the Manual/Track search buttons [►► · ►►I] of the CD player section.**



Unit: min.

Tape recording time will change in the above sequence whenever the button is pressed.

7. **Press the EDIT button of the CD player section.**
   All the programmed tracks for cassette tape sides A, B and the recording time will be displayed.
   If you want to see the contents of the program, press the EDIT button. The programmed tracks will be displayed in the programmed sequence.
8. **Press the ASES button.**
9. **To stop A.S.E.S. operation, press the STOP button (■) of Deck II or CD player section.**

<A.S.E.S. operation>

① The cassette tape for recording is rewound to the beginning.
② Recording on the cassette tape begins in the forward direction.
③ Playback begins on the CD player.
④ When one side is recorded, recording on the cassette tape begins in the reverse direction.

If you stop A.S.E.S. operation part way through, press Deck II or CD player's STOP button (■).

NOTE:

- *A.S.E.S. performs automatic recording from CD to tape, so do not attempt to perform manual operations during A.S.E.S. operation.*
- *A.S.E.S. may stop or operate incorrectly when there is a song change near the end of the tape. In such cases, use manual operation to record the remaining songs.*
- *When the EDIT button is pressed for 3 continuous seconds, the tape length will be automatically selected. It will be selected from 46 min., 60 min., or 90 min.*
- *Up to 23 songs per disc can be programmed using EDIT.*

MEMORIZING YOUR USUAL LISTENING SETTINGS (SMART OPERATION)

This function lets you recall your usual listening settings (usual operation switch and knob settings) at the push of a button.
Press the START/SET button, and the unit searches for an audio source that is ready to play, and automatically switches functions before starting playback from that source.

Programming the setting

1. **Select the appropriate settings to be stored.**
2. **Press the SMART OPERATION MEMORY button.**
3. **Press the START/SET button within 5 seconds.**

NOTE:

Volume will be memorized at the setting that exists when memorization takes place. However, high volume settings above the near center position cannot be memorized. (XD-J225M only)

Recalling the stored settings

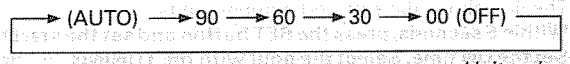
1. **Set to playback from the source you want to listen to.**
   • If you have memorized TAPE in SMART OPERATION, load a tape.
   • If you have memorized CD, load a CD in the CD tray.
2. **Press the START/SET button.**
   • When playback with a memorized function is not possible (for example, when CD has been memorized and there is no CD in the tray), search for the next audio source and operate manually in the same way as before programming the memory.

NOTE:

If the program source is not set for a programmed function, the CD stops at this function.

SLEEP TIMER —Automatically turns off power.

Sleep timer can be activated by remote control unit only. Power is turned off automatically after your set time has elapsed.
Each time you press the SLEEP button, the setting changes in sequence as shown here.

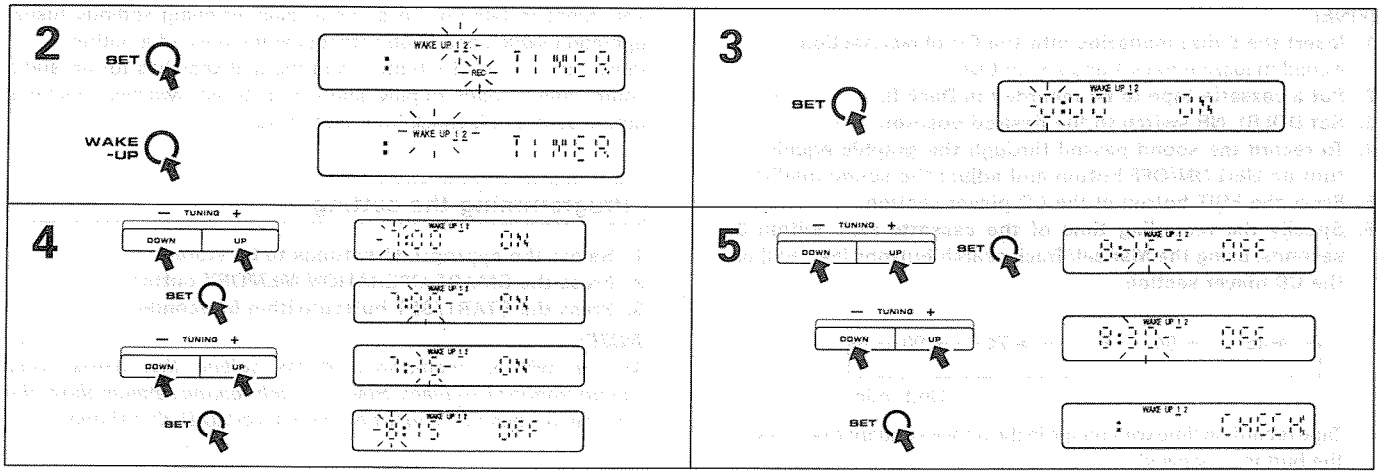


Unit: min.

During CD play, tape recording and playback, if you press the SLEEP button and select "AUTO", power to the unit is automatically switched off when recording and playback have finished.
During relay playback, power is switched off when playback has finished on one deck.

- During SLEEP operation, if you press the SLEEP button twice, sleep timer remaining time is displayed. If you press it once more, sleep timer time settings change.

TIMER PLAYBACK



- A compact disc, cassette, or a radio broadcast can be used as a morning alarm instead of an alarm clock.
- You can set the volume level up to about the middle point. It is not possible to set the volume level higher than this. They are played back at the same volume as before the power of this unit was turned off. (XD-J225M only)
- Do not raise the volume too high. (XD-J125M only)
- Timer playback begins everyday at the same time as long as the timer playback mode is not turned off.
- To receive the desired station for TIMER PLAYBACK, set the frequency of the station to a channel and tune to that channel before setting the timer.
- Switch the function to the desired source for timer playback.
- Perform timer settings with power ON.

OPERATION

Example: Set WAKE-UP 1 for timer playback from 7:15 to 8:30.

1. **Select the function for the desired source.**
   - **To listen to a CD ...**
     Switch the function to CD, and load a disc.
   - **To listen to the radio ...**
     Switch the function to TUNER, and tune in the desired broadcasting station. Refer to TUNING INTO STATIONS (see page 19) and RECEPTION USING PRESET TUNING (see page 20). Set other parameters such as volume level.
   - **To listen to a tape ...**
     Switch the function to TAPE, and load Deck I or Deck II with a tape. The deck starts playback in the forward direction (►). If tapes are loaded in both Decks I and II, playback starts on Deck I.
2. **Press SET button. Select WAKE-UP 1 or 2 with the WAKE-UP timer selector button.**
   The line above the selected number lights.
3. **Within 5 seconds, press the SET button and set the start time.**
4. **Set the ON time. Select the hour with the TUNING "—" or "+" buttons, and press the SET button. Select the minutes with the TUNING "—" or "+" buttons, and press the SET button.**
   - The display will automatically show an OFF time one hour after the selected ON-time.
5. **Set the OFF time. Select the hour with the TUNING "—" or "+" buttons, and press the SET button. Select the minutes with the TUNING "—" or "+" buttons, and press the SET button.**
   After showing the ON time, OFF time, and the selected function, the tuner display will return to the normal display.
   When tuner is selected, the frequency, station call number and band will be displayed.
   - If you don't set the OFF time, it is automatically set for one hour after the ON time.

[To activate the timer]

Select 1 or 2 with the WAKE-UP timer selector button. If the power is ON, switch it OFF.

NOTE:

When timer playback has been selected, if everything is not set appropriately (for example,there's no CD in the disc tray, no cassette tape loaded in the deck, or if the TUNED indicator is not lit for the received frequency), the audio input selector searches for and automatically switches to another source that will provide sound. If there is no other source, operation stops.

To change timer settings

Input the new setting, beginning with the first step.

If you make a mistake while setting the timer

Complete the current process first, and then repeat the entire process from the beginning.

Turning the timer ON/OFF

After inputting the timer setting, check the tuner display to confirm which timer is set to ON. The timer whose indicator is lit (WAKE-UP 1 or 2) will be activated. Note that when the WAKE-UP timer selector button is pressed and the indicator is off, the timer will not operate. The timer can be reactivated by pressing the WAKE-UP timer selector button, as the setting is stored in the memory.

To check the timer

1. **Press SET button.**
2. **Select 1 or 2 with the wake-up timer selector button. After about 5 seconds, settings are displayed.**

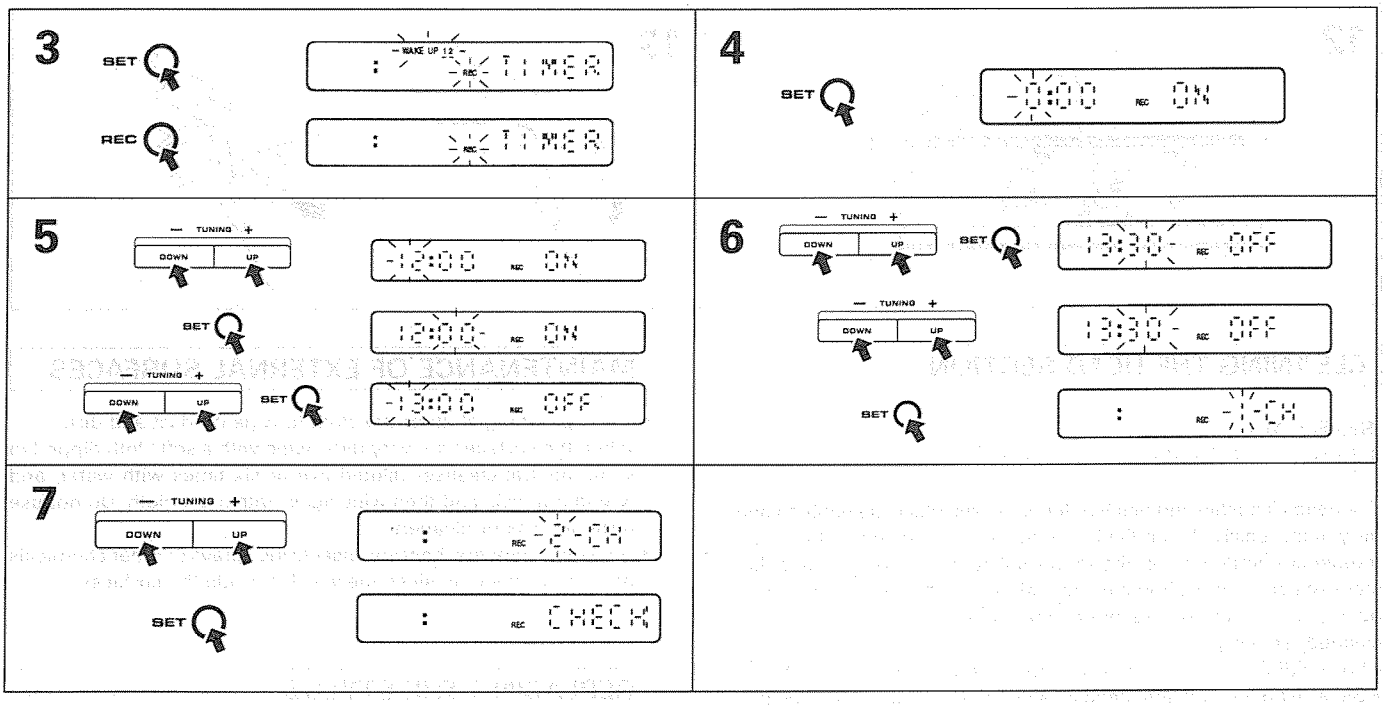
SNOOZE function

After timer playback starts, you can turn the power temporarily off by pressing the SNOOZE button of the remote control unit. The power will be turned to ON again after approximately 5 minutes.

NOTE:

If the remaining time for timer playback is less than 5 minutes, the power will remain off and playback will not resume after 5 minutes even if the SNOOZE button is pressed.

TIMER RECORDING



- At the set time, an FM or AM station is recorded (enabling recording while you are out or asleep).
  Record the broadcasting station in STATION before beginning timer recording. (Refer to MEMORIZING STATIONS (page 20).)
- Perform timer settings with power ON.
- Do not raise the volume too high. (XD-J125M only)

NOTE:
Make sure that the erasure prevention tabs of the cassette have not been removed.

1. **Insert a tape to be recorded into Deck II.**
   - Timer recording begins in the forward direction (▶) so be careful which way you put in the tape.
2. **Set DOLBY NR switch on the cassette deck to the position of your choice.**
3. **Press the SET button, then press the REC button of TIMER selector buttons.**
4. **Press the SET button within 5 seconds.**
5. **Set the ON time. Select the hour with the TUNING "—" or "+" buttons, and press the SET button. Select the minutes with the TUNING "—" or "+" buttons, and press the SET button.**
6. **Set the OFF time. Select the hour with the TUNING "—" or "+" buttons, and press the SET button. If you don't set the time for recording to stop, it is automatically set to stop after one hour. Select the minutes with the TUNING "—" or "+" buttons, and press the SET button.**
7. **Select the station call number (CH) that you want to record with the TUNING "—" or "+" buttons, and press the SET button.**
   After showing the ON time and OFF time, the station call number will be displayed. The tuner display will return to the normal display.

[To activate the timer]

Press the REC button of TIMER selector buttons. If the power is ON, switch it OFF.

To change timer recording setting

Input the new setting, beginning with the first step.

If you make a mistake while setting the timer

Complete the current process first, and then repeat the entire process from the beginning.

Turning the timer ON/OFF

Confirm that TIMER REC indicator is lit on the display section. Note that the TIMER RECORDING mode is valid only for one recording. You can reactivate the timer by pressing the TIMER REC button (the REC indicator lights) again, as the setting is stored in the memory.

To check the timer settings

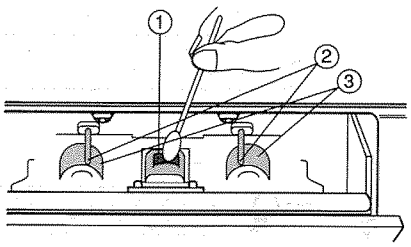
1. **Press SET button.**
2. **Press the REC button within 5 seconds. After about five seconds, the check mode will automatically display the timer contents.**

TIMER Setting Priority

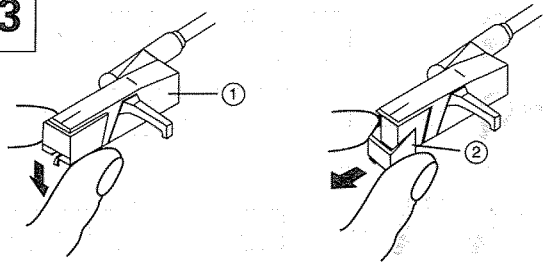
- If more than one timer is set, and their operation times are overlapping, the timer with the earlier starting time has priority. The other timer(s) will not be activated.
- If more than one timer is set and their starting time has been set at the same time, they will be activated in the sequence of REC, WAKE-UP 1, and WAKE-UP 2.
- If the OFF time of the SLEEP timer is set within the operating time of one or more additional timer, the SLEEP timer has priority.
- When setting the wake-up timer and recording timer to run sequentially, be sure that at least a one minute interval is allowed between the two function settings.

MAINTENANCE

12



13



CLEANING THE HEAD SECTION

(See Fig. 12)
① Head ② Capstan ③ Pinch roller

The heads, capstan and pinch roller are parts which are liable to get dirty quite easily. In particular, if the heads are dirty, the high frequency components of the sound will not be reproduced and the stereo balance will be impaired, resulting in a deterioration of sound quality. It is therefore recommended that the head section be cleaned regularly.

- Press EJECT button (⏏) to open the cassette door.
- Dip a cleaning swab into head cleaning fluid and use it to wipe the head, capstan, and pinch rollers. Wait 2—3 minutes till cleaning fluid dries.

NOTE:
This unit uses a head-slant standby system, with the result that the heads are mounted at an angled position.

DEMAGNETIZING THE HEAD

The recording/playback head becomes magnetized when you use the cassette deck for prolonged periods of time. This results in noise being generated and the treble dropping off during recording and playback. The recording/playback head should therefore be demagnetized regularly with a commonly sold head demagnetizer. **To avoid adversely affecting the CD cassette deck amplifier and speakers, be sure to set the volume level to MIN. Also disconnect the headphone plug from the PHONES jack.**
For further details, refer to the operating instructions accompanying your head demagnetizer.

NOTE:
Do not hold a screwdriver, metal objects or magnets close to the heads.

MAINTENANCE OF EXTERNAL SURFACES

- Use a polishing cloth or dry cloth to wipe off dust and dirt.
- When the surfaces are very dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleaners.
- Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces.

REPLACING THE STYLUS

1. **Remove the stylus gently. (See Fig. 13)**
2. **Attach the new stylus to the cartridge.**
   ① Cartridge ② Stylus

NOTE:
- *The service life of the stylus on the supplied cartridge ranges from 800 to 1,000 hours. (Approximately one year if you play records about two hours everyday. However, the stylus may need to be replaced earlier depending on the way it is used.)*
- *Using a worn or damaged stylus can damage your records and distort the sound reproduction. Remember to replace the stylus at the earliest possible date.*
- *Always use the PIONEER "PN-210" as a replacement stylus.*
- *Always ask for a genuine PIONEER replacement stylus.*

TROUBLESHOOTING

Incorrect operations are often mistaken for trouble and malfunctions. If you think that there is something wrong with this component, check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after exercising the checks listed below, ask your nearest PIONEER authorized service center or your dealer to carry out repair work.

Cassette deck and amplifier sections

Symptom	Cause	Remedy
No sound from speakers.	• Speaker cords are disconnected. • Speaker cords are connected with vinyl insulation still on. • Your desired listening source is not selected with FUNCTION button. • Connection cords are not connected or are damaged.	• Connect speaker cords correctly. • Strip vinyl insulation from speaker wire tips before connecting. • Select correct listening source with FUNCTION button. • Connect correctly or replace with good quality cords.
Sound from only one speaker.	• One of the speaker cords is disconnected or damaged.	• Connect correctly or replace with a good quality cord.
Tape sounds unclear, not loud enough.	• **Dirty head.**	• **Clean head.**
Cannot record.	• Erasure prevention tabs are broken off. • **Dirty head.**	• Apply adhesive tape over tab holes. • **Clean head.**
Treble tones unclear.	• **Dirty head.** • DOLBY NR system is ON (ON, B or C) when listening to a tape recorded without DOLBY NR.	• **Clean head.** • Use the same noise reduction system for playback as for recording. (Do not play tapes recorded with different NR systems.)
Treble tones too strong.	• Tape recorded with DOLBY NR but played without.	• Play in the same condition as recording. (Turn on DOLBY NR switch for recorded tapes with DOLBY NR.)
Strange sounds heard (or recorded) from tape, CD, or radio.	• TV is on. • This unit is too close to TV.	• Turn off TV. • Move TV away until interference stops.
Music Search does not work.	• No 4-second space.	• Use tape with 4-second space between songs.

Compact disc player section

When playback is started, it stops immediately. **Pauses or stops playback.**	• Disc is loaded upside down. • Contaminated disc, etc.	• Load the disc correctly with the label side DOWN. • Press (►/❚❚) button. • Clear the fog from the disc and then play it again.
With certain discs, loud noise is produced, or play stops.	• Disc is badly scratched or warped. • Disc is extremely dirty.	• Replace the disc. • Clean the disc.

TROUBLESHOOTING

Tuner

Symptom	Cause	Remedy
No reception.	• Antenna not connected.	• Connect antenna correctly.
Beat noise heard.	• TV is on. • Loop antenna position bad.	• Turn off TV or move TV away. • Change loop antenna position.
Noise heard.	• Interference from nearby fluorescent light, hair dryer, or other electrical appliance.	• Stop using device causing interference.
Sound is distorted.	• Antenna in poor position. • Broadcast is weak. • Interference from other electrical devices or multipath reception.	• Change antenna position. • Use external antenna. • Change antenna position.

Remote Control Unit

Remote control does not work.	• Batteries are dead or no batteries in remote control unit. • Poor angle or too great a distance from the remote sensor window. • There is an obstacle between you and the remote sensor window. • A fluorescent light is shining on the remote sensor window.	• Insert new batteries. • Use within 7 meters and within a 30 degree angle of the remote sensor window. • Change your position or move the obstacle. • Turn off the light.

Clock and Timer

No time indication.	• There was a power blackout. • AC plug was pulled.	• Set time again. • Set time again.
Timer does not work.	• Current time is not set. • Start time is not set. • Timer is not on.	• Set current time. • Set ON time. • To use timer, press the timer selector button so that the timer display lights.

Turntable

Platter does not turn.	• Belt is off.	• Put belt correctly on platter.
No sound.	• The listening source is not selected to PHONO with FUNCTION button.	• Set to PHONO.
Noise or scratchy sounds.	• Dust on record. • Scratch on record.	• Clean record. • Use good record.

Abnormal functioning of this unit may be caused by lightning, static electricity, or other external interference. To restore normal operation, turn the power off and then on again, or unplug the AC power cord and then plug it in again.

SPECIFICATIONS

Stereo multi-play CD cassette deck amplifier: XD-J225M/XD-J125M

Amplifier Section

[XD-J225M]

Continuous Power Output (RMS)
- Front ..... 51 W + 51 W (1 kHz, T.H.D. 10 %, 8 Ω)
- Rear ..... 15 W (1 kHz, T.H.D. 10 %, 16 Ω)

Music Power (DIN) ..... 68 W + 68 W (1 kHz, T.H.D. 1 %, 8 Ω)
Continuous Power Output (DIN) ... 38 W + 38 W (1 kHz, T.H.D. 1 %, 8 Ω)
Surround Output Music Power (DIN) ..... 12 W (1 kHz 1 %, 16 Ω)

[XD-J125M]

Continuous Power Output (RMS) ..... 45 W + 45 W (1 kHz, T.H.D. 10 %, 8 Ω)
Music Power (DIN) ..... 66 W + 66 W (1 kHz, T.H.D. 1 %, 8 Ω)
Continuous Power Output (DIN) ... 34 W + 34 W (1 kHz, T.H.D. 1 %, 8 Ω)

Graphic Equalizer Frequency Band ..... 60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 15 kHz, ±7 dB
S/N (DIN, continuous power/50 mW)
- PHONO ..... 68 dB/60 dB

Total Harmonic Distortion (40 Hz to 20,000 Hz, 22.5 W, 8 Ω)* ..... No more than 0.2 %
Input Sensitivity/Impedance
- PHONO (MM) ..... 2.5 mV/47 kΩ
- VCR ..... 150 mV/25 kΩ

Double Deck Section

Systems ..... 4 track, 2-channel stereo
Heads ..... Recording/playback head x 1, Erasing head x 1, Playback head x 1
Motor ..... DC servo 2 speed motor x 2
Wow and Flutter ..... No more than 0.09 % (W. PEAK)
Fast Winding Time ..... Approximately 105 seconds (C-60 tape)
Frequency Response (−20 dB recording):
- Type I (Normal) tape ..... 35 Hz to 14,000 Hz ±6 dB (EIAJ)
- Type II (HIGH/CrO_2) tape ..... 35 Hz to 15,000 Hz ±6 dB (EIAJ)

Signal-to-Noise Ratio
- Dolby NR OFF ..... 56 dB

Noise Reduction Effect
- Dolby B type NR ON ..... More than 5 dB (at 5 kHz)
- Dolby C type NR ON (XD-J225M only) ..... More than 19 dB (at 5 kHz)

CD Section

Type ..... Compact disc digital audio system
Frequency Response ..... 4 Hz to 20 kHz
Number of Channels ..... 2 channels (stereo)

Furnished Parts

Operating Instructions 1
Remote Control Unit 1
Dry Cell Batteries 2
Six-Compact disc-Magazine 1

Miscellaneous

Power Requirements ..... a.c. 240 Volts ~, 50/60 Hz
Power Consumption ..... 275 W
Dimensions ..... 360 (W) x 300.5 (H) x 344 (D) mm
Weight (without package) ..... 10 kg

The Magazine Type Multi-Play CD Players with mark and the Magazines with the same mark are compatible for 5-inch (12 cm) discs.

FM/AM tuner: F-J220

FM Tuner Section

Frequency Range ..... 87.5 MHz to 108 MHz
Usable Sensitivity (IHF) ..... Mono: 12.8 dBf, (1.2 µV/75 Ω)
Sensitivity (DIN) ..... Mono S/N 26 dB: 1 µV/75 Ω, Stereo S/N 46 dB: 35 µV/75 Ω
Signal-to-Noise Ratio (IHF, 85 dBf Input) ..... Mono: 77 dB
Signal-to-Noise Ratio (DIN) ..... Mono: 66 dB, Stereo: 60 dB
Distortion ..... Stereo: 0.5 % (1 kHz)
Antenna Input ..... 75 Ω unbalanced

(AM) MW Tuner Section

Frequency Range ..... 531 kHz to 1,602 kHz
Sensitivity (IHF, Loop antenna) ..... 350 µV/m
Antenna ..... Loop Antenna

Miscellaneous

Dimensions ..... 360 (W) x 80 (H) x 324 (D) mm
Weight (without package) ..... 2.2 kg

Furnished Parts

FM Antenna 1
AM Loop Antenna 1

Turntable: PL-J210

Motor, Platter

Motor Type ..... DC servo motor
Drive Method ..... belt drive
Speed ..... 33-1/3, 45 RPM
Wow and Flutter ..... 0.07 % WRMS (JIS), ±0.10 % WTD Peak (DIN)
Signal-to-Noise Ratio ..... 63 dB (DIN-B)
Platter ..... 295 mm dia., aluminum die-cast

Tonearm

Type ..... Dynamic balance type, straight tonearm

Installed Cartridge

Type ..... MM Type
Stylus ..... 0.6 mil diamond
Replacement Stylus PN-210
Output Voltage ..... 2.5 mV (1 kHz, 5 cm/s, Lat. peak)
Tracking Force ..... 2.0 to 3.0 g (optimum 2.5 g)
Frequency Response ..... 20 Hz to 25,000 Hz
Load Resistance ..... 47 kΩ
Cartridge Weight ..... 4 g

Other

Dimensions ..... 360 (W) x 94 (H) x 364 (D) mm
Weight ..... 2.4 kg

Accessories

EP Adapter 1

- Specifications and design are subject to possible modifications without notice, due to improvements.

* Measured By Audio Spectrum Analyzer.

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